Giridhar Madras

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8239800/publications.pdf

Version: 2024-02-01

570 papers 24,053 citations

9756 73 h-index 117 g-index

580 all docs

580 docs citations

580 times ranked

24411 citing authors

#	Article	IF	CITATIONS
1	Catalysis for NOx abatement. Applied Energy, 2009, 86, 2283-2297.	5.1	612
2	Structure and Photocatalytic Activity of Ti1-xMxO2±Î′(M = W, V, Ce, Zr, Fe, and Cu) Synthesized by Solution Combustion Method. Journal of Physical Chemistry B, 2004, 108, 20204-20212.	1.2	536
3	Synthesis and Structure of Nanocrystalline TiO2with Lower Band Gap Showing High Photocatalytic Activity. Langmuir, 2004, 20, 2900-2907.	1.6	519
4	Solar photocatalytic degradation of dyes: high activity of combustion synthesized nano TiO2. Applied Catalysis B: Environmental, 2004, 48, 83-93.	10.8	355
5	Photocatalytic degradation of various dyes by combustion synthesized nano anatase TiO2. Applied Catalysis B: Environmental, 2003, 45, 23-38.	10.8	345
6	Synthesis of biodiesel in supercritical fluids. Fuel, 2004, 83, 2029-2033.	3.4	334
7	Noble Metal Ionic Catalysts. Accounts of Chemical Research, 2009, 42, 704-712.	7.6	311
8	Novel Photocatalysts for the Decomposition of Organic Dyes Based on Metal-Organic Framework Compounds. Journal of Physical Chemistry B, 2006, 110, 13759-13768.	1.2	297
9	Conducting polyaniline–nano-TiO2 composites for smart corrosion resistant coatings. Electrochimica Acta, 2009, 54, 1249-1254.	2.6	283
10	Photocatalytic Degradation of Organic Compounds over Combustion-Synthesized Nano-TiO2. Environmental Science & Environmental S	4.6	281
11	Ultrafast Microwave-Assisted Route to Surfactant-Free Ultrafine Pt Nanoparticles on Graphene: Synergistic Co-reduction Mechanism and High Catalytic Activity. Chemistry of Materials, 2011, 23, 2772-2780.	3.2	257
12	Adsorption of Sulfonated Dyes by Polyaniline Emeraldine Salt and Its Kinetics. Journal of Physical Chemistry B, 2008, 112, 10153-10157.	1.2	245
13	Synthesis of biodiesel from edible and non-edible oils in supercritical alcohols and enzymatic synthesis in supercritical carbon dioxide. Fuel, 2007, 86, 2650-2659.	3.4	239
14	Low-Temperature Selective Catalytic Reduction of NO with NH ₃ over Ti _{0.9} M _{0.1} O ₂₋ _Î (M = Cr, Mn, Fe, Co, Cu). Journal of Physical Chemistry C, 2008, 112, 6002-6012.	1.5	227
15	Photocatalytic Degradation of Rhodamine Dyes with Nano-TiO2. Industrial & Degradation of Rhodamine	1.8	225
16	Adsorption and Desorption Kinetics of Anionic Dyes on Doped Polyaniline. Journal of Physical Chemistry B, 2009, 113, 2293-2299.	1.2	184
17	Synthesis of Biodiesel from Castor Oil and Linseed Oil in Supercritical Fluids. Industrial & Samp; Engineering Chemistry Research, 2007, 46, 1-6.	1.8	178
18	Process induced electroactive \hat{l}^2 -polymorph in PVDF: effect on dielectric and ferroelectric properties. Physical Chemistry Chemical Physics, 2014, 16, 14792.	1.3	173

#	Article	IF	CITATIONS
19	High Oxygen Storage Capacity and High Rates of CO Oxidation and NO Reduction Catalytic Properties of Ce _{1â^'<i>x< i>< sub>Sn_{<i>x< i>< sub>O_{2< sub> and Ce_{0.78< sub>Sn_{0.2< sub>Pd_{0.02< sub>O_{2-Î< sub>2-Î< sub>. Journal of Physical Chemistry C, 2009, 113, 4059-4068.}}}}}</i>}</i>}	1.5	151
20	Enzymatic degradation of polymers: A brief review. Materials Science and Technology, 2014, 30, 567-573.	0.8	144
21	Kinetics of Sonophotocatalytic Degradation of Anionic Dyes with Nano-TiO ₂ . Environmental Science & Environmental Sc	4.6	141
22	Nanoscale ZnO/CdS heterostructures with engineered interfaces for high photocatalytic activity under solar radiation. Journal of Materials Chemistry, 2011, 21, 4209.	6.7	141
23	Intermittent electrical stimuli for guidance of human mesenchymal stem cell lineage commitment towards neural-like cells on electroconductive substrates. Biomaterials, 2014, 35, 6219-6235.	5.7	133
24	Kinetics of Simultaneous Photocatalytic Degradation of Phenolic Compounds and Reduction of Metal lons with Nano-TiO ₂ . Environmental Science & Environmental Science	4.6	132
25	Layer-by-Layer Assembled Thin Films and Microcapsules of Nanocrystalline Cellulose for Hydrophobic Drug Delivery. ACS Applied Materials & Samp; Interfaces, 2014, 6, 20093-20101.	4.0	130
26	Origin of enhanced photocatalytic activity and photoconduction in high aspect ratio ZnO nanorods. Physical Chemistry Chemical Physics, 2013, 15, 10795.	1.3	127
27	Hierarchical Design of CuS Architectures for Visible Light Photocatalysis of 4-Chlorophenol. ACS Omega, 2017, 2, 4009-4021.	1.6	126
28	New empirical expressions to correlate solubilities of solids in supercritical carbon dioxide. Thermochimica Acta, 2010, 500, 123-127.	1.2	125
29	Photocatalytic degradation of Azure and Sudan dyes using nano TiO2. Journal of Hazardous Materials, 2007, 149, 725-734.	6.5	123
30	Thermal degradation and mechanical properties of PET blends. Polymer Degradation and Stability, 2005, 90, 147-153.	2.7	121
31	Investigation of dye functional group on the photocatalytic degradation of dyes by nano-TiO2. Journal of Hazardous Materials, 2010, 176, 765-773.	6.5	121
32	The effect of sulfate pre-treatment to improve the deposition of Au-nanoparticles in a gold-modified sulfated g-C ₃ N ₄ plasmonic photocatalyst towards visible light induced water reduction reaction. Physical Chemistry Chemical Physics, 2016, 18, 28502-28514.	1.3	118
33	Thermal degradation of binary physical mixtures and copolymers of poly(Îμ-caprolactone), poly(d,) Tj ETQq1 1 0.	.784314 rg	gBT ₁ 17 Verlock
34	Outstanding dielectric constant and piezoelectric coefficient in electrospun nanofiber mats of PVDF containing silver decorated multiwall carbon nanotubes: assessing through piezoresponse force microscopy. RSC Advances, 2016, 6, 6251-6258.	1.7	111
35	Kinetics of the photodegradation of substituted phenols by solution combustion synthesized TiO2. Applied Catalysis B: Environmental, 2004, 51, 67-76.	10.8	110
36	Photocatalytic Activity of Combustion Synthesized ZrO ₂ and ZrO ₂ –TiO ₂ Mixed Oxides. Industrial & Engineering Chemistry Research, 2011, 50, 12915-12924.	1.8	107

#	Article	IF	CITATIONS
37	Cocatalyst free Z-schematic enhanced H2 evolution over LaVO4/BiVO4 composite photocatalyst using Ag as an electron mediator. Applied Catalysis B: Environmental, 2018, 220, 512-523.	10.8	106
38	Polyolefin based antibacterial membranes derived from PE/PEO blends compatibilized with amine terminated graphene oxide and maleated PE. Journal of Materials Chemistry A, 2014, 2, 17635-17648.	5.2	104
39	Highly efficient WO ₃ –ZnO mixed oxides for photocatalysis. RSC Advances, 2015, 5, 11895-11904.	1.7	103
40	Macroporous three-dimensional graphene oxide foams for dye adsorption and antibacterial applications. RSC Advances, 2016, 6, 1231-1242.	1.7	99
41	Kinetics of thermal degradation of poly($\hat{l}\mu$ -caprolactone). Journal of Analytical and Applied Pyrolysis, 2003, 70, 631-647.	2.6	96
42	Molecular Weight Effect on the Dynamics of Polystyrene Degradation. Industrial & Engineering Chemistry Research, 1997, 36, 2019-2024.	1.8	95
43	Poly(vinylidene fluoride)-Based Flexible and Lightweight Materials for Attenuating Microwave Radiations. ACS Applied Materials & Samp; Interfaces, 2014, 6, 21151-21160.	4.0	94
44	Temperature effects on the transition from nucleation and growth to Ostwald ripening. Chemical Engineering Science, 2004, 59, 2753-2765.	1.9	93
45	Adsorption of anionic dyes on chitosan grafted poly(alkyl methacrylate)s. Chemical Engineering Journal, 2010, 158, 393-401.	6.6	93
46	Understanding the morphological effects of WO 3 photocatalysts for the degradation of organic pollutants. Advanced Powder Technology, 2018, 29, 1591-1600.	2.0	93
47	Conjugated Polymers for Photocatalysis. Journal of Physical Chemistry B, 2007, 111, 7994-7998.	1.2	89
48	CO methanation toward the production of synthetic natural gas over highly active Ni/TiO ₂ catalyst. AICHE Journal, 2014, 60, 1027-1035.	1.8	88
49	Photocatalytic degradation of nitrobenzenes with combustion synthesized nano-TiO2. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 178, 1-7.	2.0	87
50	In vitro/In vivo assessment and mechanisms of toxicity of bioceramic materials and its wear particulates. RSC Advances, 2014, 4, 12763.	1.7	87
51	Supercritical fluid regeneration of activated carbon loaded with heavy molecular weight organics. Industrial & Description of the company of	1.8	85
52	Degradation kinetics of polymers in solution: Dynamics of molecular weight distributions. AICHE Journal, 1997, 43, 802-810.	1.8	85
53	Photocatalytic activity of Ag-substituted and impregnated nano-TiO2. Applied Catalysis A: General, 2009, 366, 130-140.	2.2	85
54	Dye sensitized visible light degradation of phenolic compounds. Chemical Engineering Journal, 2010, 165, 784-797.	6.6	85

#	Article	IF	Citations
55	Photocatalytic Degradation of Dyes and Organics with Nanosized GdCoO3. Journal of Physical Chemistry C, 2007, 111, 1665-1674.	1.5	83
56	Photocatalytic reduction of metals in presence of combustion synthesized nano-TiO2. Catalysis Communications, 2008, 9, 630-634.	1.6	82
57	Photocatalytic inactivation of E. Coli by ZnO–Ag nanoparticles under solar radiation. RSC Advances, 2015, 5, 51067-51077.	1.7	82
58	Engineering Nanostructures by Decorating Magnetic Nanoparticles onto Graphene Oxide Sheets to Shield Electromagnetic Radiations. ACS Applied Materials & Electromagnetic Radiations. ACS Applied Materials & Electromagnetic Radiations.	4.0	82
59	High rates of NO and N2O reduction by CO, CO and hydrocarbon oxidation by O2 over nano crystalline Ce0.98Pd0.02O2â~Î: Catalytic and kinetic studies. Applied Catalysis B: Environmental, 2007, 71, 23-31.	10.8	81
60	New Insights into Selective Heterogeneous Nucleation of Metal Nanoparticles on Oxides by Microwave-Assisted Reduction: Rapid Synthesis of High-Activity Supported Catalysts. ACS Nano, 2011, 5, 8049-8061.	7.3	81
61	Degradation of Poly(methyl methacrylate) in Solution. Industrial & Engineering Chemistry Research, 1996, 35, 1795-1800.	1.8	80
62	Evolution to Similarity Solutions for Fragmentation and Aggregation. Journal of Colloid and Interface Science, 1998, 201, 200-209.	5.0	80
63	Thermal degradation of poly (Îμ-caprolactone). Polymer Degradation and Stability, 2003, 80, 11-16.	2.7	80
64	Crystal structures and photocatalysis of the triclinic polymorphs of BiNbO4 and BiTaO4. Journal of Solid State Chemistry, 2006, 179, 3919-3925.	1.4	80
65	Adsorption–desorption and photocatalytic properties of inorganic–organic hybrid cadmium thiosulfate compounds. Physical Chemistry Chemical Physics, 2009, 11, 11285.	1.3	80
66	Effect of morphology of zinc oxide in ZnO-CdS-Ag ternary nanocomposite towards photocatalytic inactivation of E. coli under UV and visible light. Chemical Engineering Journal, 2017, 307, 966-980.	6.6	80
67	Ostwald ripening with size-dependent rates: Similarity and power-law solutions. Journal of Chemical Physics, 2002, 117, 8042-8049.	1.2	79
68	Supercritical carbon dioxide extraction of organics from soil. Environmental Science & Emp; Technology, 1993, 27, 1225-1231.	4.6	78
69	Discrete and continuous models for polymerization and depolymerization. Chemical Engineering Science, 2001, 56, 2831-2836.	1.9	78
70	Kinetics and mechanism of dye adsorption on WO 3 nanoparticles. Applied Surface Science, 2017, 420, 472-482.	3.1	78
71	Effect of initial molecular weight and solvents on the ultrasonic degradation of poly(ethylene) Tj ETQq1 1 0.7843	814 rgBT /0 2.7	Ov <u>er</u> lock 10
72	A novel sheet 4f–3d mixed-metal pyridine dicarboxylate: synthesis, structure, photophysical properties and its transformation to a perovskite oxide. Chemical Communications, 2005, , 5787.	2.2	77

#	Article	IF	CITATIONS
73	Continuous distribution kinetics for ultrasonic degradation of polymers. Polymer Degradation and Stability, 2000, 69, 73-78.	2.7	76
74	Analytical solution for a population balance equation with aggregation and fragmentation. Chemical Engineering Science, 2003, 58, 3049-3051.	1.9	76
75	Synthesis of biodiesel in supercritical alcohols and supercritical carbon dioxide. Fuel, 2010, 89, 1641-1646.	3.4	75
76	Influence of CeO2 morphology on the catalytic activity of CeO2–Pt hybrids for CO oxidation. Dalton Transactions, 2013, 42, 15343.	1.6	74
77	Flexible EMI shielding materials derived by melt blending PVDF and ionic liquid modified MWNTs. Materials Research Express, 2014, 1, 035003.	0.8	74
78	Morphology controllable microwave absorption property of polyvinylbutyral (PVB)-MnO 2 nanocomposites. Composites Part B: Engineering, 2018, 132, 188-196.	5.9	74
79	Cooperativity and Structural Relaxations in PVDF/PMMA Blends in the Presence of MWNTs: An Assessment through SAXS and Dielectric Spectroscopy. Macromolecules, 2014, 47, 1392-1402.	2.2	72
80	Synthesis, Characterization and Photocatalytic Activity of Lanthanide (Ce, Pr and Nd) Orthovanadates. Industrial & Description of Lanthanide (Ce, Pr and Nd) Orthovanadates.	1.8	71
81	Multivalent Cu-Doped ZnO Nanoparticles with Full Solar Spectrum Absorbance and Enhanced Photoactivity. Industrial & Engineering Chemistry Research, 2014, 53, 5895-5904.	1.8	71
82	Temperature effects during Ostwald ripening. Journal of Chemical Physics, 2003, 119, 1683-1693.	1.2	70
83	Enzymatic Synthesis of Ethyl Palmitate in Supercritical Carbon Dioxide. Industrial & Engineering Chemistry Research, 2004, 43, 1568-1573.	1.8	70
84	Kinetics of TiO2-Catalyzed Ultrasonic Degradation of Rhodamine Dyes. Industrial & Engineering Chemistry Research, 2006, 45, 913-921.	1.8	70
85	Introducing saccharic acid as an efficient iron chelate to enhance photo-Fenton degradation of organic contaminants. Water Research, 2016, 104, 168-177.	5.3	70
86	Enzymatic and Thermal Degradation of Poly($\hat{l}\mu$ -caprolactone), Poly(d,l-lactide), and Their Blends. Industrial & Engineering Chemistry Research, 2004, 43, 7702-7709.	1.8	69
87	Solubilities of solids in supercritical fluids using dimensionally consistent modified solvate complex models. Fluid Phase Equilibria, 2009, 283, 97-101.	1.4	69
88	Catalytic performance of highly dispersed Ni/TiO2 for dry and steam reforming of methane. RSC Advances, 2014, 4, 4817.	1.7	69
89	Industrial waste fly ash cenosphere composites based broad band microwave absorber. Composites Part B: Engineering, 2018, 134, 151-163.	5.9	69
90	Optimization of rheological properties of photopolymerizable alumina suspensions for ceramic microstereolithography. Ceramics International, 2014, 40, 3655-3665.	2.3	67

#	Article	IF	CITATIONS
91	Effect of solvent on the ultrasonic degradation of poly(vinyl acetate). Polymer Degradation and Stability, 2001, 71, 273-278.	2.7	66
92	Multilayer Self-Assembly of TiO ₂ Nanoparticles and Polyaniline- <i>Grafted</i> -Chitosan Copolymer (CPANI) for Photocatalysis. ACS Applied Materials & Samp; Interfaces, 2011, 3, 84-92.	4.0	66
93	New Insights into Electronic and Geometric Effects in the Enhanced Photoelectrooxidation of Ethanol Using ZnO Nanorod/Ultrathin Au Nanowire Hybrids. Journal of the American Chemical Society, 2014, 136, 14445-14455.	6.6	66
94	Detailed mechanism and kinetic study of CO oxidation on cobalt oxide surfaces. Applied Catalysis A: General, 2015, 504, 463-475.	2.2	66
95	Electromagnetic interference shielding effectiveness of polyaniline-nickel oxide coated cenosphere composite film. Composites Communications, 2017, 4, 37-42.	3.3	66
96	Photocatalytic degradation with combustion synthesized WO3 and WO3TiO2 mixed oxides under UV and visible light. Separation and Purification Technology, 2013, 105, 79-89.	3.9	65
97	Synthesis, characterization and thermal degradation of dual temperature―and pHâ€sensitive RAFTâ€made copolymers of <i>N</i> , <i>N</i> ,6; dimethylamino)ethyl methacrylate and methyl methacrylate. Polymer International, 2013, 62, 463-473.	1.6	65
98	Solubilities of palmitic and stearic fatty acids in supercritical carbon dioxide. Journal of Chemical Thermodynamics, 2010, 42, 193-197.	1.0	64
99	Effect of Metal Oxides on Thermal Degradation of Poly(vinyl acetate) and Poly(vinyl chloride) and Their Blends. Industrial & Engineering Chemistry Research, 2003, 42, 3647-3653.	1.8	63
100	Photocatalytic degradation of poly(ethylene oxide) and polyacrylamide. Journal of Applied Polymer Science, 2006, 100, 3997-4003.	1.3	63
101	Synthesis, characterization, degradation of biodegradable castor oil based polyesters. Polymer Degradation and Stability, 2011, 96, 1695-1704.	2.7	63
102	Biofunctionalized surface-modified silver nanoparticles for gene delivery. Journal of Materials Chemistry B, 2015, 3, 5266-5276.	2.9	62
103	Novel AgBr/Ag ₃ PO ₄ Decorated Ceria Nanoflake Composites for Enhanced Photocatalytic Activity toward Dyes and Bacteria under Visible Light. Industrial & Engineering Chemistry Research, 2015, 54, 8031-8042.	1.8	62
104	Shape memory polyurethane nanocomposites with porous architectures for enhanced microwave shielding. Chemical Engineering Journal, 2018, 352, 590-600.	6.6	62
105	Modeling of supercritical extraction of organics from solid matrices. AICHE Journal, 1994, 40, 777-785.	1.8	61
106	Thermal degradation of poly(α-methylstyrene) in solution. Polymer Degradation and Stability, 1996, 52, 349-358.	2.7	61
107	Heterojunction ZnWO ₄ /ZnFe ₂ O ₄ composites with concerted effects and integrated properties for enhanced photocatalytic hydrogen evolution. Catalysis Science and Technology, 2018, 8, 1083-1093.	2.1	61
108	Distribution kinetics theory of Ostwald ripening. Journal of Chemical Physics, 2001, 115, 6699-6706.	1.2	60

#	Article	IF	CITATIONS
109	Creation of Redox Adsorption Sites by Pd2+lon Substitution in nanoTiO2for High Photocatalytic Activity of CO Oxidation, NO Reduction, and NO Decomposition. Journal of Physical Chemistry C, 2007, 111, 8153-8160.	1.5	60
110	Higher Catalytic Activity of Nano-Ce1-x-yTixPdyO2-ÎCompared to Nano-Ce1-xPdxO2-Îfor CO Oxidation and N2O and NO Reduction by CO:  Role of Oxide Ion Vacancy. Journal of Physical Chemistry C, 2007, 111, 830-839.	1.5	60
111	Synthesis and characterization of flexible epoxy nanocomposites reinforced with amine functionalized aluminananoparticles: a potential encapsulant for organic devices. Polymer Chemistry, 2011, 2, 221-228.	1.9	60
112	Nanostructured Pd modified Ni/CeO2 catalyst for water gas shift and catalytic hydrogen combustion reaction. Applied Catalysis B: Environmental, 2013, 132-133, 28-38.	10.8	60
113	Electrically driven intracellular and extracellular nanomanipulators evoke neurogenic/cardiomyogenic differentiation in human mesenchymal stem cells. Biomaterials, 2016, 77, 26-43.	5.7	60
114	Time evolution to similarity solutions for polymer degradation. AICHE Journal, 1998, 44, 647-655.	1.8	59
115	Effect of temperature on the ultrasonic degradation of polyacrylamide and poly(ethylene oxide). Polymer Degradation and Stability, 2004, 84, 341-344.	2.7	59
116	Kinetics of photocatalytic degradation of phenols with multiple substituent groups. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 179, 256-262.	2.0	59
117	Poly(vinyl butyral) -polyaniline-magnetically functionalized fly ash cenosphere composite film for electromagnetic interference shielding. Composites Part B: Engineering, 2016, 106, 224-233.	5.9	59
118	Sonochemical synthesis of Pt, Ru doped TiO2 for methane reforming. Applied Catalysis A: General, 2016, 518, 102-114.	2.2	59
119	An association model for the solubilities of pharmaceuticals in supercritical carbon dioxide. Thermochimica Acta, 2010, 507-508, 99-105.	1.2	58
120	Swelling and Dye-Adsorption Characteristics of an Amphoteric Superabsorbent Polymer. Industrial & Engineering Chemistry Research, 2012, 51, 14941-14948.	1.8	58
121	Synergistic effect of co-existence of hematite (\hat{l} ±-Fe 2 O 3) and magnetite (Fe 3 O 4) nanoparticles on graphene sheet for dye adsorption. Journal of Environmental Chemical Engineering, 2017, 5, 26-37.	3.3	58
122	Thermal degradation kinetics of thermoresponsive poly(N-isopropylacrylamide-co-N,N-dimethylacrylamide) copolymers prepared via RAFT polymerization. Journal of Thermal Analysis and Calorimetry, 2013, 111, 753-761.	2.0	57
123	Kinetic Model for TiO2Polymorphic Transformation from Anatase to Rutile. Journal of the American Ceramic Society, 2007, 90, 250-255.	1.9	56
124	High rates of CO and hydrocarbon oxidation and NO reduction by CO over Ti0.99Pd0.01O1.99. Applied Catalysis B: Environmental, 2007, 73, 300-310.	10.8	56
125	Pd and Pt ions as highly active sites for the water–gas shift reaction over combustion synthesized zirconia and zirconia-modified ceria. Applied Catalysis B: Environmental, 2010, 96, 83-93.	10.8	56
126	Novel insights into the properties of AgBiO3 photocatalyst and its application in immobilized state for 4-nitrophenol degradation and bacteria inactivation. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 373, 105-115.	2.0	56

#	Article	IF	CITATIONS
127	Kinetics of Photocatalytic Degradation of Chlorophenol, Nitrophenol, and Their Mixtures. Industrial & Lamp; Engineering Chemistry Research, 2006, 45, 482-486.	1.8	55
128	Photoconductive network structured copper oxide for simultaneous photoelectrocatalytic degradation of antibiotic (tetracycline) and bacteria (E. coli). Chemical Engineering Journal, 2018, 332, 757-774.	6.6	55
129	Thermal degradation kinetics of polystyrene in solution. Polymer Degradation and Stability, 1997, 58, 131-138.	2.7	54
130	Ultrasonic degradation of polybutadiene and isotactic polypropylene. Polymer Degradation and Stability, 2004, 85, 555-558.	2.7	54
131	Distribution kinetics of polymer crystallization and the Avrami equation. Journal of Chemical Physics, 2005, 122, 064901.	1.2	54
132	Ultrafast Self-Healable Interfaces in Polyurethane Nanocomposites Designed Using Diels–Alder "Click―as an Efficient Microwave Absorber. ACS Omega, 2018, 3, 1137-1146.	1.6	54
133	The journey of self-healing and shape memory polyurethanes from bench to translational research. Polymer Chemistry, 2019, 10, 4370-4388.	1.9	54
134	Kinetic study of Z-scheme C3N4/CuWO4 photocatalyst towards solar light inactivation of mixed populated bacteria. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 372, 108-121.	2.0	54
135	Polymer Nanocomposites Containing Semiconductors as Advanced Materials for EMI Shielding. ACS Omega, 2020, 5, 4705-4718.	1.6	54
136	Microwave Synthesis and Photocatalytic Activity of Nano Lanthanide (Ce, Pr, and Nd) Orthovanadates. Industrial & Engineering Chemistry Research, 2008, 47, 6509-6516.	1.8	53
137	Enhanced sunlight photocatalytic activity of Ag3PO4 decorated novel combustion synthesis derived TiO2 nanobelts for dye and bacterial degradation. Photochemical and Photobiological Sciences, 2015, 14, 1227-1237.	1.6	53
138	Mechanistic Insight into the Nature of Dopants in Graphene Derivatives Influencing Electromagnetic Interference Shielding Properties in Hybrid Polymer Nanocomposites. Journal of Physical Chemistry C, 2019, 123, 2579-2590.	1.5	53
139	Enzymatic degradation of poly (Îμ-caprolactone), poly (vinyl acetate) and their blends by lipases. Chemical Engineering Science, 2003, 58, 2911-2919.	1.9	52
140	Rapid Synthesis of Ultrahigh Adsorption Capacity Zirconia by a Solution Combustion Technique. Langmuir, 2011, 27, 3578-3587.	1.6	52
141	Effect of inorganic ions, H2O2 and pH on the photocatalytic inactivation of Escherichia coli with silver impregnated combustion synthesized TiO2 catalyst. Applied Catalysis B: Environmental, 2011, 106, 453-459.	10.8	52
142	Solution Combustion Synthesis of Nanosized Copper Chromite and Its Use as a Burn Rate Modifier in Solid Propellants. Industrial & Engineering Chemistry Research, 2012, 51, 10108-10116.	1.8	51
143	Cross-Linked, Biodegradable, Cytocompatible Salicylic Acid Based Polyesters for Localized, Sustained Delivery of Salicylic Acid: An In Vitro Study. Biomacromolecules, 2014, 15, 863-875.	2.6	51
144	Synthesis, Structure, Negative Thermal Expansion, and Photocatalytic Property of Mo Doped ZrV ₂ O ₇ . Inorganic Chemistry, 2011, 50, 8774-8781.	1.9	50

#	Article	IF	CITATIONS
145	Kinetics of synthesis of butyl butyrate by esterification and transesterification in supercritical carbon dioxide. Journal of Chemical Technology and Biotechnology, 2008, 83, 1135-1144.	1.6	48
146	Light weight, ultrathin, and "thermally-clickable―self-healing MWNT patch as electromagnetic interference suppressor. Chemical Engineering Journal, 2019, 366, 72-82.	6.6	48
147	Transition from nucleation and growth to Ostwald ripening. Chemical Engineering Science, 2002, 57, 3809-3818.	1.9	47
148	Solvent effects on the lipase catalyzed biodegradation of poly ($\hat{l}\mu$ -caprolactone) in solution. Polymer Degradation and Stability, 2003, 79, 413-418.	2.7	47
149	Blends of poly(\$epsiv;-caprolactone) and poly(vinyl acetate): mechanical properties and thermal degradation. Polymer Degradation and Stability, 2004, 84, 345-351.	2.7	47
150	Covalent Grafting of Polydimethylsiloxane over Surface-Modified Alumina Nanoparticles. Industrial & Engineering Chemistry Research, 2011, 50, 6585-6593.	1.8	47
151	Novel synergistic photocatalytic degradation of antibiotics and bacteria using V–N doped TiO ₂ under visible light: the state of nitrogen in V-doped TiO ₂ . New Journal of Chemistry, 2016, 40, 3464-3475.	1.4	47
152	Remarkable enhancement of Fenton degradation at a wide pH range promoted by thioglycolic acid. Chemical Communications, 2017, 53, 1136-1139.	2.2	47
153	Oxidative degradation kinetics of polystyrene in solution. Chemical Engineering Science, 1997, 52, 2707-2713.	1.9	46
154	Synthesis and photocatalytic activity of poly(3-hexylthiophene)/TiO2 composites. Journal of Solid State Chemistry, 2007, 180, 2986-2989.	1.4	46
155	Photocatalytic properties of KBiO3 and LiBiO3 with tunnel structures. Journal of Chemical Sciences, 2011, 123, 517-524.	0.7	46
156	PVDF/PBSA membranes with strongly coupled phosphonium derivatives and graphene oxide on the surface towards antibacterial and antifouling activities. Journal of Membrane Science, 2018, 548, 203-214.	4.1	46
157	Supercritical extraction of organic contaminants from soil combined with adsorption onto activated carbon. Environmental Progress, 1994, 13, 45-50.	0.8	45
158	Reversible crystal growth–dissolution and aggregation–breakage: numerical and moment solutions for population balance equations. Powder Technology, 2004, 143-144, 297-307.	2.1	45
159	Porous membranes designed from bi-phasic polymeric blends containing silver decorated reduced graphene oxide synthesized via a facile one-pot approach. RSC Advances, 2015, 5, 32441-32451.	1.7	45
160	Multi-layered stack consisting of PVDF nanocomposites with flow-induced oriented MWCNT structure can supress electromagnetic radiation. Composites Part B: Engineering, 2019, 166, 749-757.	5.9	45
161	Esterification of myristic acid in supercritical carbon dioxide. Journal of Supercritical Fluids, 2003, 27, 55-64.	1.6	44
162	Unique nanoporous antibacterial membranes derived through crystallization induced phase separation in PVDF/PMMA blends. Journal of Materials Chemistry A, 2015, 3, 5991-6003.	5.2	44

#	Article	IF	Citations
163	Adsorption kinetics of dyes and their mixtures with Co 3 O 4 â€"ZrO 2 composites. Journal of Environmental Chemical Engineering, 2015, 3, 2684-2696.	3.3	44
164	Effect of the chain length of the acid on the enzymatic synthesis of flavors in supercritical carbon dioxide. Biochemical Engineering Journal, 2005, 23, 199-202.	1.8	43
165	Degradation of polycaprolactone in supercritical fluids. Polymer Degradation and Stability, 2008, 93, 1901-1908.	2.7	43
166	Photocatalytic inactivation of Escherischia coli and Pichia pastoris with combustion synthesized titanium dioxide. Chemical Engineering Journal, 2010, 165, 225-233.	6.6	43
167	Layer-by-Layer Assembled Thin Film of Albumin Nanoparticles for Delivery of Doxorubicin. Journal of Physical Chemistry C, 2012, 116, 5333-5341.	1.5	43
168	A critical review on in situ reduction of graphene oxide during preparation of conducting polymeric nanocomposites. RSC Advances, 2015, 5, 32078-32087.	1.7	43
169	Visible light driven efficient N and Cu co-doped ZnO for photoinactivation of Escherichia coli. RSC Advances, 2016, 6, 85675-85687.	1.7	43
170	Outstanding electromagnetic interference shielding effectiveness of polyvinylbutyral–polyaniline nanocomposite film. RSC Advances, 2016, 6, 79058-79065.	1.7	43
171	Piezoelectric Response in Electrospun Poly(vinylidene fluoride) Fibers Containing Fluoro-Doped Graphene Derivatives. ACS Omega, 2018, 3, 5317-5326.	1.6	43
172	Kinetics of microwave-assisted polymerization of ?-caprolactone. Journal of Applied Polymer Science, 2004, 91, 1450-1456.	1.3	42
173	Modeling of Lipase Catalyzed Ring-Opening Polymerization of Îμ-Caprolactone. Biomacromolecules, 2004, 5, 603-609.	2.6	42
174	Solubilities of Hexadecanoic and Octadecanoic Acids in Supercritical CO ₂ With and Without Cosolvents. Journal of Chemical & Engineering Data, 2008, 53, 2913-2917.	1.0	42
175	Microwave Assisted Synthesis of Nanostructured Titanium Dioxide with High Photocatalytic Activity. Industrial & Engineering Chemistry Research, 2010, 49, 9636-9643.	1.8	42
176	Million-Fold Decrease in Polymer Moisture Permeability by a Graphene Monolayer. ACS Nano, 2016, 10, 6501-6509.	7.3	42
177	A designer membrane tool-box with a mixed metal organic framework and RAFT-synthesized antibacterial polymer perform in tandem towards desalination, antifouling and heavy metal exclusion. Journal of Materials Chemistry A, 2018, 6, 16664-16679.	5.2	42
178	Journey of Electroactive \hat{I}^2 -Polymorph of Poly(vinylidenefluoride) from Crystal Growth to Design to Applications. Crystal Growth and Design, 2019, 19, 5441-5456.	1.4	42
179	Mussel-Inspired Self-Healing Polyurethane with "Flower-like―Magnetic MoS ₂ as Efficient Microwave Absorbers. ACS Applied Polymer Materials, 2019, 1, 2417-2429.	2.0	42
180	Supportâ€dependent activity of noble metal substituted oxide catalysts for the water gas shift reaction. AICHE Journal, 2010, 56, 2662-2676.	1.8	41

#	Article	IF	Citations
181	Visible light photocatalytic inactivation of Escherichia coli with combustion synthesized TiO2. Chemical Engineering Journal, 2012, 189-190, 101-107.	6.6	41
182	The Key Role of Modifications in Biointerfaces toward Rendering Antibacterial and Antifouling Properties in Polymeric Membranes for Water Remediation: A Critical Assessment. Advanced Sustainable Systems, 2019, 3, 1900017.	2.7	41
183	Sustainable photocatalytic water remediation via dual active strongly coupled AgBiO3 on PVDF/PBSA membranes. Chemical Engineering Journal, 2020, 394, 124777.	6.6	41
184	Reversible Swelling/Deswelling Characteristics of Ethylene Glycol Dimethacrylate Cross-Linked Poly(acrylic acid- <i>co</i> -sodium acrylate- <i>co</i> -acrylamide) Superabsorbents. Industrial & amp; Engineering Chemistry Research, 2011, 50, 10918-10927.	1.8	40
185	Combinatorial Approach to Develop Tailored Biodegradable Poly(xylitol dicarboxylate) Polyesters. Biomacromolecules, 2014, 15, 4302-4313.	2.6	40
186	Dendron conjugation to graphene oxide using click chemistry for efficient gene delivery. RSC Advances, 2015, 5, 50196-50211.	1.7	40
187	Copolyesters from Soybean Oil for Use as Resorbable Biomaterials. ACS Sustainable Chemistry and Engineering, 2015, 3, 880-891.	3.2	40
188	Electromagnetic interference shielding efficiency of MnO ₂ nanorod doped polyaniline film. Materials Research Express, 2017, 4, 025013.	0.8	40
189	Role of Hydrogen and Oxygen Activation over Pt and Pd-Doped Composites for Catalytic Hydrogen Combustion. ACS Applied Materials & Samp; Interfaces, 2017, 9, 19380-19388.	4.0	40
190	Enhanced photocatalysis and bacterial inhibition in Nb ₂ O ₅ <i>via</i> versatile doping with metals (Sr, Y, Zr, and Ag): a critical assessment. Nanoscale Advances, 2019, 1, 2748-2760.	2.2	40
191	Syngas production via CO2 reforming of methane over noble metal (Ru, Pt, and Pd) doped LaAlO3 perovskite catalyst. Molecular Catalysis, 2020, 484, 110805.	1.0	40
192	Molecular-weight distribution kinetics for ultrasonic reactions of polymers. AICHE Journal, 2001, 47, 2341-2348.	1.8	39
193	Numerical and Similarity Solutions for Reversible Population Balance Equations with Size-Dependent Rates. Journal of Colloid and Interface Science, 2002, 246, 356-365.	5.0	39
194	New photocatalysts based on mixed-metal pyridine dicarboxylates. Catalysis Letters, 2007, 115, 27-32.	1.4	39
195	Low temperature NOx and N2O reduction by H2: Mechanism and development of new nano-catalysts. Applied Catalysis B: Environmental, 2008, 84, 341-350.	10.8	39
196	Nondeactivating Nanosized Ionic Catalysts for Waterâ "Gas Shift Reaction. Industrial & Engineering Chemistry Research, 2009, 48, 6535-6543.	1.8	39
197	Polyvinylidene fluoride based lightweight and corrosion resistant electromagnetic shielding materials. RSC Advances, 2015, 5, 35909-35916.	1.7	39
198	Chitosan Immobilized Porous Polyolefin As Sustainable and Efficient Antibacterial Membranes. ACS Sustainable Chemistry and Engineering, 2016, 4, 862-870.	3.2	39

#	Article	IF	Citations
199	Solar-Light-Driven Improved Photocatalytic Performance of Hierarchical ZnIn ₂ S ₄ Architectures. ACS Omega, 2017, 2, 6926-6938.	1.6	39
200	Modeling the solubilities of fatty acids in supercritical carbon dioxide. Fluid Phase Equilibria, 2003, 209, 207-213.	1.4	38
201	Effects of the pH, concentration, and solvents on the ultrasonic degradation of poly(vinyl alcohol). Journal of Applied Polymer Science, 2006, 100, 4888-4892.	1.3	38
202	Long-Term Sustained Release of Salicylic Acid from Cross-Linked Biodegradable Polyester Induces a Reduced Foreign Body Response in Mice. Biomacromolecules, 2015, 16, 636-649.	2.6	38
203	Temperature effects for crystal growth: a distribution kinetics approach. Acta Materialia, 2003, 51, 2031-2040.	3.8	37
204	Degradation of Water Soluble Polymers under Combined Ultrasonic and Ultraviolet Radiation. Industrial & Degradation of Water Soluble Polymers under Combined Ultrasonic and Ultraviolet Radiation.	1.8	37
205	Water gas shift reaction over multi-component ceria catalysts. Applied Catalysis B: Environmental, 2012, 123-124, 367-378.	10.8	37
206	Ionomer Based Blend as Water Vapor Barrier Material for Organic Device Encapsulation. ACS Applied Materials & Samp; Interfaces, 2013, 5, 4409-4416.	4.0	37
207	Lightweight polyaniline-cobalt coated fly ash cenosphere composite film for electromagnetic interference shielding. Electronic Materials Letters, 2016, 12, 603-609.	1.0	37
208	Magnetic Alloyâ€MWNT Heterostructure as Efficient Electromagnetic Wave Suppressors in Soft Nanocomposites. ChemistrySelect, 2017, 2, 7831-7844.	0.7	37
209	Thermal Degradation of Polystyrene by Lewis Acids in Solution. Industrial & Engineering Chemistry Research, 2002, 41, 657-660.	1.8	36
210	Distribution kinetics of Ostwald ripening at large volume fraction and with coalescence. Journal of Colloid and Interface Science, 2003, 261, 423-433.	5.0	36
211	Solubilities of Dodecanoic and Tetradecanoic Acids in Supercritical CO ₂ with and without Entrainers. Journal of Chemical & Engineering Data, 2008, 53, 2637-2641.	1.0	36
212	Kinetics of the ultrasonic degradation of poly (alkyl methacrylates). Ultrasonics Sonochemistry, 2009, 16, 273-279.	3.8	36
213	Structure, tensile properties and cytotoxicity assessment of sebacic acid based biodegradable polyesters with ricinoleic acid. Journal of Materials Chemistry B, 2013, 1, 865-875.	2.9	36
214	Photocatalytic degradation of poly(bisphenol-A-carbonate) in solution over combustion-synthesized TiO2: mechanism and kinetics. Applied Catalysis A: General, 2004, 269, 81-90.	2.2	35
215	Hybrid nanocomposite films of polyvinyl alcohol and ZnO as interactive gas barrier layers for electronics device passivation. RSC Advances, 2012, 2, 11536.	1.7	35
216	Synthesis of nanosized Ce0.85M0.1Ru0.05O2â^'Î' (M=Si, Fe) solid solution exhibiting high CO oxidation and water gas shift activity. Applied Catalysis B: Environmental, 2013, 138-139, 51-61.	10.8	35

#	Article	IF	Citations
217	Nanoparticle-Driven Intermolecular Cooperativity and Miscibility in Polystyrene/Poly(vinyl methyl) Tj ETQq1 1 0.78	84 <u>31</u> 4 rgBT	- 10verlock
218	Unusual Fragility and Cooperativity in Glass-Forming and Crystalline PVDF/PMMA Blends in the Presence of Multiwall Carbon Nanotubes. Macromolecules, 2015, 48, 2740-2750.	2.2	35
219	Effect of Tetralin on the Degradation of Polymer in Solution. Industrial & Engineering Chemistry Research, 1995, 34, 4222-4228.	1.8	34
220	Enzymatic Synthesis of Flavors in Supercritical Carbon Dioxide. Industrial & Engineering Chemistry Research, 2002, 41, 1940-1945.	1.8	34
221	Biodegradable polymers for industrial applications. , 2005, , .		34
222	Structural and Photocatalytic Activity of Lanthanide (Ce, Pr, and Nd) Molybdovanadates. Journal of Physical Chemistry C, 2007, 111, 6505-6511.	1.5	34
223	Polyvinylbutyral Based Hybrid Organic/Inorganic Films as a Moisture Barrier Material. Industrial & Engineering Chemistry Research, 2013, 52, 4383-4394.	1.8	34
224	Positive temperature coefficient and structural relaxations in selectively localized MWNTs in PE/PEO blends. RSC Advances, 2014, 4, 4943.	1.7	34
225	Contrasting Effects of Graphene Oxide and Poly(ethylenimine) on the Polymorphism in Poly(vinylidene) Tj ETQq1	1 0,78431 1.4	4 ₃₇ gBT /Ove
226	Solubilities of 10-undecenoic acid and geraniol in supercritical carbon dioxide. Journal of Supercritical Fluids, 2016, 107, 384-391.	1.6	34
227	Investigation of nano Ag-decorated SiC particles for photoelectrocatalytic dye degradation and bacterial inactivation. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 357, 118-131.	2.0	34
228	â€Trigger-free' self-healable electromagnetic shielding material assisted by co-doped graphene nanostructures. Chemical Engineering Journal, 2020, 382, 122816.	6.6	34
229	Distribution Kinetics for Polymer Mixture Degradation. Industrial & Engineering Chemistry Research, 1999, 38, 352-357.	1.8	33
230	Binder removal studies in ceramic thick shapes made by laminated object manufacturing. Journal of the European Ceramic Society, 2003, 23, 1013-1017.	2.8	33
231	Purifying Water Containing Both Anionic and Cationic Species Using a (Zn, Cu)O, ZnO, and Cobalt Ferrite Based Multiphase Adsorbent System. Industrial & Engineering Chemistry Research, 2013, 52, 16384-16395.	1.8	33
232	Efficient interfacial charge transfer through plasmon sensitized Ag@Bi ₂ O ₃ hierarchical photoanodes for photoelectrocatalytic degradation of chlorinated phenols. Physical Chemistry Chemical Physics, 2018, 20, 3710-3723.	1.3	33
233	Photocatalytic degradation of methyl methacrylate copolymers. Polymer Degradation and Stability, 2008, 93, 1440-1449.	2.7	32
234	Synthesis, characterization, redox and photocatalytic properties of Ce1â^'xPdxVO4 (0â‰ x â‰ 6 .1). Applied Catalysis B: Environmental, 2008, 84, 474-481.	10.8	32

#	Article	IF	Citations
235	Adsorption of cationic dyes on poly(acrylic acidâ€ <i>co</i> â€sodium acrylateâ€ <i>co</i> â€acrylamide) superabsorbents. Journal of Applied Polymer Science, 2012, 124, 3892-3899.	1.3	32
236	New Physical Insights into Shear History Dependent Polymorphism in Poly(vinylidene fluoride). Crystal Growth and Design, 2016, 16, 2937-2944.	1.4	32
237	Distributed midpoint chain scission in ultrasonic degradation of polymers. AICHE Journal, 2004, 50, 2258-2265.	1.8	31
238	Synthesis, Structure, and Photocatalysis in a New Structural Variant of the Aurivillius Phase:  LiBi4M3O14 (M = Nb, Ta). Journal of Physical Chemistry B, 2005, 109, 11442-11449.	1.2	31
239	ZnO–Au nanohybrids by rapid microwave-assisted synthesis for CO oxidation. Dalton Transactions, 2012, 41, 8762.	1.6	31
240	Highly photoactive heterostructures of PbO quantum dots on TiO2. RSC Advances, 2013, 3, 20970.	1.7	31
241	Biodiesel synthesis from Calophyllum inophyllum oil with different supercritical fluids. Bioresource Technology, 2017, 241, 767-774.	4.8	31
242	Thermal and microwave-assisted oxidative degradation of poly(ethylene oxide). Journal of Applied Polymer Science, 2005, 96, 2090-2096.	1.3	30
243	Synthesis, structure, transformation studies and catalytic properties of open-framework cadmium thiosulfate compounds. Dalton Transactions, 2010, 39, 2263.	1.6	30
244	Synthesis and degradation of sorbitolâ€based polymers. Journal of Applied Polymer Science, 2011, 121, 2861-2869.	1.3	30
245	Controlled Release of Salicylic Acid from Biodegradable Cross-Linked Polyesters. Molecular Pharmaceutics, 2015, 12, 3479-3489.	2.3	30
246	Facile one-pot scalable strategy to engineer biocidal silver nanocluster assembly on thiolated PVDF membranes for water purification. RSC Advances, 2016, 6, 38972-38983.	1.7	30
247	Kinetics of CO oxidation over Cu doped Mn 3 O 4. Journal of Molecular Catalysis A, 2016, 424, 106-114.	4.8	30
248	Visible light assisted improved photocatalytic activity of combustion synthesized spongy-ZnO towards dye degradation and bacterial inactivation. RSC Advances, 2016, 6, 80086-80098.	1.7	30
249	Phase specific dispersion of functional nanoparticles in soft nanocomposites resulting in enhanced electromagnetic screening ability dominated by absorption. Physical Chemistry Chemical Physics, 2017, 19, 467-479.	1.3	30
250	Ag and CuO impregnated on Fe doped ZnO for bacterial inactivation under visible light. Catalysis Today, 2018, 300, 71-80.	2.2	30
251	Conversion of Shizochitrium limacinum microalgae to biodiesel by non-catalytic transesterification using various supercritical fluids. Bioresource Technology, 2019, 288, 121538.	4.8	30
252	Synthesis and photoactivity of Pd substituted nano-TiO2. Journal of Molecular Catalysis A, 2008, 291, 5-11.	4.8	29

#	Article	IF	Citations
253	CO oxidation by CeO2–Al2O3–CeAlO3 hybrid oxides. Catalysis Science and Technology, 2011, 1, 1683.	2.1	29
254	Polyester derived from recycled poly(ethylene terephthalate) waste for regenerative medicine. RSC Advances, 2014, 4, 58805-58815.	1.7	29
255	High photoconductive combustion synthesized TiO ₂ derived nanobelts for photocatalytic water purification under solar irradiation. New Journal of Chemistry, 2015, 39, 6040-6051.	1.4	29
256	Experimental determination and theoretical correlation for the solubilities of dicarboxylic acid esters in supercritical carbon dioxide. Journal of Supercritical Fluids, 2015, 101, 87-94.	1.6	29
257	Role of Ni in hetero-architectured NiO/Ni composites for enhanced catalytic performance. Physical Chemistry Chemical Physics, 2017, 19, 13895-13908.	1.3	29
258	Wedge-like WO3 architectures for efficient electrochromism and photoelectrocatalytic activity towards water pollutants. Molecular Catalysis, 2017, 432, 76-87.	1.0	29
259	Selective cleavage of the polyphosphoester in crosslinked copper based nanogels: enhanced antibacterial performance through controlled release of copper. Nanoscale, 2017, 9, 12664-12676.	2.8	29
260	Interlocked Dithiâ€Magnetospheres–Decorated MoS ₂ Nanosheets as Molecular Sieves and Traps for Heavy Metal Ions. Advanced Sustainable Systems, 2019, 3, 1800153.	2.7	29
261	Water Remediation Aided by a Graphene-Oxide-Anchored Metal Organic Framework through Pore- and Charge-Based Sieving of Ions. ACS Sustainable Chemistry and Engineering, 2019, 7, 1580-1590.	3.2	29
262	Effect of benzoyl peroxide on the ultrasonic degradation of poly(vinyl acetate). Polymer Degradation and Stability, 2001, 73, 33-38.	2.7	28
263	Influence of temperature on the ultrasonic degradation of poly(vinyl acetate) and poly(vinyl) Tj ETQq1 1 0.78431	.4 _{[gg} BT /O	verlgck 10 Ti
264	Effect of Alkyl-Group Substituents on the Degradation of Poly(alkyl methacrylates) in Supercritical Fluids. Industrial & Engineering Chemistry Research, 2007, 46, 15-21.	1.8	28
265	Catalytic hydrogen combustion for treatment of combustible gases from fuel cell processors. Applied Catalysis B: Environmental, 2010, 100, 481-490.	10.8	28
266	Polymeric membranes derived from immiscible blends with hierarchical porous structures, tailored bio-interfaces and enhanced flux: Potential and key challenges. Nano Structures Nano Objects, 2018, 14, 149-165.	1.9	28
267	Continuous distribution theory for Ostwald ripening: comparison with the LSW approach. Chemical Engineering Science, 2003, 58, 2903-2909.	1.9	27
268	Growth and Ripening Kinetics of Crystalline Polymorphs. Crystal Growth and Design, 2003, 3, 981-990.	1.4	27
269	Effect of compatibilization on mechanical and thermal properties of polypropylene–soy flour composites. Journal of Materials Science, 2008, 43, 64-74.	1.7	27
270	Kinetics of enzymatic synthesis of geranyl butyrate by transesterification in various supercritical fluids. Biochemical Engineering Journal, 2010, 49, 250-255.	1.8	27

#	Article	IF	Citations
271	Unimpeded permeation of water through biocidal graphene oxide sheets anchored on to 3D porous polyolefinic membranes. Nanoscale, 2016, 8, 8048-8057.	2.8	27
272	Fatty acid methyl esters synthesis from non-edible vegetable oils using supercritical methanol and methyl tert -butyl ether. Energy Conversion and Management, 2017, 138, 77-83.	4.4	27
273	Development of Graphene Oxide-/Galactitol Polyester-Based Biodegradable Composites for Biomedical Applications. ACS Omega, 2017, 2, 5545-5556.	1.6	27
274	A new technique for measuring solubilities of organics in supercritical fluids. Journal of Chemical & Engineering Data, 1993, 38, 422-423.	1.0	26
275	Ultrasonic degradation of poly (styrene-co-alkyl methacrylate) copolymers. Ultrasonics Sonochemistry, 2010, 17, 819-826.	3.8	26
276	Ce0·98Pd0·02O2-δ: Recyclable, ligand free palladium(II) catalyst for Heck reaction. Journal of Chemical Sciences, 2011, 123, 47-54.	0.7	26
277	Flexible poly(vinyl alcohol-co-ethylene)/modified MMT moisture barrier composite for encapsulating organic devices. RSC Advances, 2013, 3, 12831.	1.7	26
278	Polyanhydrides of Castor Oil–Sebacic Acid for Controlled Release Applications. Industrial & Discrete Regineering Chemistry Research, 2014, 53, 7891-7901.	1.8	26
279	Impedance spectroscopy of novel hybrid composite films of polyvinylbutyral (PVB)/functionalized mesoporous silica. Composites Part B: Engineering, 2014, 58, 134-139.	5.9	26
280	Zinc and platinum co-doped ceria for WGS and CO oxidation. Applied Catalysis B: Environmental, 2017, 211, 137-147.	10.8	26
281	Nano tin ferrous oxide decorated graphene oxide sheets for efficient arsenic (III) removal. Nano Structures Nano Objects, 2018, 13, 82-92.	1.9	26
282	Continuous distribution kinetics for ultrasonic degradation of poly(methyl methacrylate). Polymer International, 2001, 50, 683-687.	1.6	25
283	Kinetics of Nonisothermal Polymer Crystallization. Journal of Physical Chemistry B, 2005, 109, 18550-18557.	1.2	25
284	Thermal degradation of water soluble polymers and their binary blends. Journal of Applied Polymer Science, 2006, 101, 233-240.	1.3	25
285	Effect of Chain Length of Alcohol on the Lipase-Catalyzed Esterification of Propionic Acid in Supercritical Carbon Dioxide. Applied Biochemistry and Biotechnology, 2010, 160, 2342-2354.	1.4	25
286	Photocatalytic degradation of dyes over combustion-synthesized Ce1â^'xFexVO4. Chemical Engineering Journal, 2010, 158, 571-577.	6.6	25
287	Synthesis, structure, characterization and photocatalytic activity of Bi2Zr2O7 under solar radiation. RSC Advances, 2013, 3, 18938.	1.7	25
288	Visible light assisted photocatalytic degradation of organic dyes on TiO2–CNT nanocomposites. Journal of Sol-Gel Science and Technology, 2015, 73, 72-82.	1.1	25

#	Article	IF	Citations
289	Ultrathin Au nanowires supported on rGO/TiO ₂ as an efficient photoelectrocatalyst. Journal of Materials Chemistry A, 2015, 3, 17459-17468.	5.2	25
290	Synthesis of Octyl Palmitate in Various Supercritical Fluids. Industrial & Engineering Chemistry Research, 2004, 43, 7697-7701.	1.8	24
291	Photocatalytic degradation of phenol by base metal-substituted orthovanadates. Chemical Engineering Journal, 2010, 161, 136-145.	6.6	24
292	Modeling of ternary solubilities of solids in supercritical carbon dioxide in the presence of cosolvents or cosolutes. Journal of Supercritical Fluids, 2012, 63, 105-114.	1.6	24
293	Adsorption of anionic dyes on a reversibly swelling cationic superabsorbent polymer. Journal of Applied Polymer Science, 2013, 127, 2251-2258.	1.3	24
294	Poly(ester amide)s from Soybean Oil for Modulated Release and Bone Regeneration. ACS Applied Materials & Samp; Interfaces, 2016, 8, 25170-25184.	4.0	24
295	Biodegradable polyol-based polymers for biomedical applications. International Materials Reviews, 2019, 64, 288-309.	9.4	24
296	ZnO catalyzed transesterification of Madhuca indica oil in supercritical methanol. Fuel, 2019, 242, 323-333.	3.4	24
297	Continuous Distribution Kinetics for the Degradation of Polystyrene in Supercritical Benzene. Industrial & Company Engineering Chemistry Research, 2000, 39, 4020-4023.	1.8	23
298	Kinetics of Degradation of Polycarbonate in Supercritical and Subcritical Benzene. Industrial & Engineering Chemistry Research, 2002, 41, 5337-5340.	1.8	23
299	Effect of Metal Oxides/Chlorides on the Thermal Degradation of Poly(vinyl chloride), Poly(bisphenol) Tj ETQq1 1 C).784314 r 1.8	gBŢ/Overloc
300	Effect of the Alkyl Group Substituents on the Thermal and Enzymatic Degradation of Poly(n-alkyl) Tj ETQq0 0 0 rg	gBT_{Overlo	ock 10 Tf 50 1
301	A novel scheelite-like structure of BaBi2Mo4O16: Photocatalysis and investigation of the solid solution, BaBi2Mo4â^xWxO16 (0.25â‰竊‰擊). Journal of Photochemistry and Photobiology A: Chemistry, 2007, 187, 177-185.	2.0	23
302	Kinetics of photoconversion of cyclohexane and benzene by LnVO4 and LnMo0.15V0.85O4 (Ln = Ce, Pr) Tj ETQq	0 <u>9 9</u> rgBT	/Qyerlock 10
303	Synthesis, Characterization, and Photocatalytic Properties of ZrMo ₂ O ₈ . Journal of Physical Chemistry C, 2009, 113, 10661-10666.	1.5	23
304	A new semi-empirical model for correlating the solubilities of solids in supercritical carbon dioxide with cosolvents. Fluid Phase Equilibria, 2011, 310, 207-212.	1.4	23
305	Low temperature CO oxidation and water gas shift reaction over Pt/Pd substituted in Fe/TiO2 catalysts. International Journal of Hydrogen Energy, 2012, 37, 18798-18814.	3.8	23
306	Experimental determination and model correlation for the solubilities of trialkyl phosphates in supercritical carbon dioxide. RSC Advances, 2016, 6, 51286-51295.	1.7	23

#	Article	IF	Citations
307	Solubility of dialkylalkyl phosphonates in supercritical carbon dioxide: Experimental and modeling approach. Fluid Phase Equilibria, 2017, 435, 88-97.	1.4	23
308	Solubility of trioctylmethylammonium chloride in supercritical carbon dioxide and the influence of co-solvents on the solubility behavior. Journal of Supercritical Fluids, 2018, 138, 102-114.	1.6	23
309	Repercussion of Solid state vs. Liquid state synthesized p-n heterojunction RGO-copper phosphate on proton reduction potential in water. Scientific Reports, 2018, 8, 2881.	1.6	23
310	Suppressing Electromagnetic Radiation by Trapping Ferrite Nanoparticles and Carbon Nanotubes in Hierarchical Nanoporous Structures Designed by Crystallizationâ€Induced Phase Separation. ChemistrySelect, 2018, 3, 1189-1201.	0.7	23
311	Fundamentals of Solids Extraction by Supercritical Fluids. , 1994, , 669-695.		23
312	Dynamics of crystal size distributions with size-dependent rates. Journal of Crystal Growth, 2002, 243, 204-213.	0.7	22
313	Dynamics of lipase catalyzed enzymatic degradation of poly(bisphenol-A carbonate). Journal of Applied Polymer Science, 2004, 91, 2391-2396.	1.3	22
314	Thermodynamic modeling of the solubilities of fatty acids in supercritical fluids. Fluid Phase Equilibria, 2004, 220, 167-169.	1.4	22
315	The illustrative use of thiosulfate in the formation of new three-dimensional hybrid structures. CrystEngComm, 2009, $11,55-57$.	1.3	22
316	Solubilities of Benzene Derivatives in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 2011, 56, 1695-1699.	1.0	22
317	Thermal degradation kinetics of poly(trimethylol propane triacrylate)/poly(hexane diol diacrylate) interpenetrating polymer network. Thermochimica Acta, 2012, 547, 53-61.	1.2	22
318	Direct conversion of calcium carbonate to C1–C3 hydrocarbons. RSC Advances, 2013, 3, 7224.	1.7	22
319	Effects of temperature and clay content on water absorption characteristics of modified MMT clay/cyclic olefin copolymer nanocomposite films: Permeability, dynamic mechanical properties and the encapsulated organic device performance. Composites Part B: Engineering, 2015, 73, 1-9.	5.9	22
320	Poly(ester amide)s from Poly(ethylene terephthalate) Waste for Enhancing Bone Regeneration and Controlled Release. ACS Applied Materials & Samp; Interfaces, 2017, 9, 28281-28297.	4.0	22
321	Polyvinylbutyral–Polyaniline Nanocomposite for High Microwave Absorption Efficiency. ACS Omega, 2018, 3, 16542-16548.	1.6	22
322	Role of CO2 methanation into the kinetics of preferential CO oxidation on Cu/Co3O4. Molecular Catalysis, 2019, 466, 167-180.	1.0	22
323	Kinetics of microwave-assisted oxidative degradation of polystyrene in solution. AICHE Journal, 2003, 49, 1821-1826.	1.8	21
324	Ostwald ripening in two dimensions: Time dependence of size distributions for thin-film islands. Physical Chemistry Chemical Physics, 2003, 5, 5459.	1.3	21

#	Article	IF	CITATIONS
325	Photodegradation of poly(vinyl alcohol) under UV and pulsed-laser irradiation in aqueous solution. Journal of Applied Polymer Science, 2006, 102, 958-966.	1.3	21
326	Kinetic Model for Transformation from Nanosized Amorphous TiO2to Anatase. Crystal Growth and Design, 2007, 7, 250-253.	1.4	21
327	Synthesis of isoamyl laurate and isoamyl stearate in supercritical carbon dioxide. Applied Biochemistry and Biotechnology, 2007, 141, 139-147.	1.4	21
328	Selective Catalytic Reduction of NOx: Mechanistic Perspectives on the Role of Base Metal and Noble Metal Ion Substitution. Industrial & Engineering Chemistry Research, 2008, 47, 9240-9247.	1.8	21
329	Photocatalytic Degradation of Poly(Acrylamide-co-acrylic Acid). Journal of Physical Chemistry B, 2008, 112, 8928-8935.	1.2	21
330	Thermal and Photocatalytic Degradation of Poly(methyl methacrylate), Poly(butyl methacrylate), and Their Copolymers. Industrial & Engineering Chemistry Research, 2008, 47, 6828-6834.	1.8	21
331	Synthesis and characterization of nano silicon and titanium nitride powders using atmospheric microwave plasma technique. Journal of Chemical Sciences, 2012, 124, 557-563.	0.7	21
332	Transition metal oxide loaded MCM catalysts for photocatalytic degradation of dyes. Journal of Chemical Sciences, 2012, 124, 385-393.	0.7	21
333	Dielectric impedance studies of poly(vinyl butyral)-cenosphere composite films. Polymer Composites, 2014, 35, 1636-1643.	2.3	21
334	Antibacterial and Antibiofouling Polymeric Membranes through Immobilization of Pyridine Derivative Leading to ROS Generation and Loss in Bacterial Membrane Integrity. ChemistrySelect, 2017, 2, 7965-7974.	0.7	21
335	Effect of hydrogen donors on polymer degradation. Catalysis Today, 1998, 40, 321-332.	2.2	20
336	Modeling of ternary solubilities of organics in supercritical carbon dioxide. Fluid Phase Equilibria, 2001, 187-188, 255-264.	1.4	20
337	Evolution to similarity solutions for polymerization and depolymerization with microwave radiation. Polymer International, 2001, 50, 1324-1330.	1.6	20
338	Lipase specificity for the hydrolysis of poly (vinyl acetate). Polymer Degradation and Stability, 2003, 80, 477-483.	2.7	20
339	Modeling the solubilities of high molecular weight n-alkanes in supercritical carbon dioxide. Fluid Phase Equilibria, 2004, 225, 59-62.	1.4	20
340	Effect of Alkyl Group Substituents, Temperature, and Solvents on the Ultrasonic Degradation of Poly(n-alkyl acrylates). Industrial & Engineering Chemistry Research, 2005, 44, 6572-6577.	1.8	20
341	Photooxidative and pyrolytic degradation of methyl methacrylate-alkyl acrylate copolymers. Polymer Degradation and Stability, 2009, 94, 1325-1335.	2.7	20
342	Temperature independent mixing rules to correlate the solubilities of antibiotics and anti-inflammatory drugs in SCCO2. Thermochimica Acta, 2009, 496, 54-58.	1,2	20

#	Article	IF	Citations
343	Photocatalytic and Thermal Degradation of Poly(methyl methacrylate), Poly(butyl acrylate), and Their Copolymers. Industrial & Engineering Chemistry Research, 2009, 48, 1712-1718.	1.8	20
344	Ultrasonic degradation of poly(methyl methacrylate-co-alkyl acrylate) copolymers. Ultrasonics Sonochemistry, 2010, 17, 403-408.	3.8	20
345	Solubilities of Some Chlorophenols in Supercritical CO ₂ in the Presence and Absence of Cosolvents. Journal of Chemical & Engineering Data, 2010, 55, 273-277.	1.0	20
346	Noble metal ionic sites for catalytichydrogen combustion: spectroscopic insights. Physical Chemistry Chemical Physics, 2011, 13, 708-718.	1.3	20
347	Role of lattice defects and crystallite morphology in the UV and visible-light-induced photo-catalytic properties of combustion-prepared TiO2. Materials Chemistry and Physics, 2011, 126, 546-554.	2.0	20
348	Kinetic studies of ionic substituted copper catalysts for catalytic hydrogen combustion. Catalysis Today, 2012, 198, 270-279.	2.2	20
349	Ultrasonic degradation of butadiene, styrene and their copolymers. Ultrasonics Sonochemistry, 2012, 19, 503-508.	3.8	20
350	Synthesis and photocatalytic performance of quasi-fibrous ZnO. RSC Advances, 2014, 4, 55807-55814.	1.7	20
351	Performance of an ionomer blend-nanocomposite as an effective gas barrier material for organic devices. RSC Advances, 2014, 4, 11176.	1.7	20
352	Evolution of Surface Roughness During Electropolishing. Tribology Letters, 2014, 55, 93-101.	1.2	20
353	Mechanistic Insights and Kinetics of CO Oxidation over Pristine and Noble Metal Modified Fe ₂ O ₃ Using Diffuse Reflectance Infrared Fourier Transform Spectroscopy. Industrial & Damp; Engineering Chemistry Research, 2017, 56, 2008-2024.	1.8	20
354	Biodegradable galactitol based crosslinked polyesters for controlled release and bone tissue engineering. Materials Science and Engineering C, 2017, 77, 534-547.	3.8	20
355	Experimental measurements and correlation of the solubility of N,N-dialkylamides in supercritical carbon dioxide. Journal of Supercritical Fluids, 2019, 143, 162-170.	1.6	20
356	Does the nature of chemically grafted polymer onto PVDF decide the extent of electroactive \hat{l}^2 -polymorph?. Polymer, 2019, 181, 121764.	1.8	20
357	Photocatalytic Oxidative Degradation of Poly(alkyl acrylates) with NanoTiO2. Industrial & Degrad	1.8	19
358	Synthesis, Structure, and Photocatalytic Activity in Orthorhombic Perovskites LnVO3 and Ln1â^'xTixVO3 (Ln = Ce, Pr, and Nd). Industrial & Engineering Chemistry Research, 2009, 48, 7489-7497.	1.8	19
359	Solubility of <i>n</i> -(4-Ethoxyphenyl)ethanamide in Supercritical Carbon Dioxide. Journal of Chemical & Chemi	1.0	19
360	Solution combustion synthesis of $\hat{l}^3(L)$ -Bi2MoO6 and photocatalytic activity under solar radiation. Materials Research Bulletin, 2011, 46, 1252-1256.	2.7	19

#	Article	IF	Citations
361	Kinetics of carbon monoxide oxidation with Sn _{0.95} M _{0.05} O _{2$\hat{a}^{\hat{i}}$} (M =) To sub a sub-oxidation with Sn _{0.95} M _{0.05} O _{2$\hat{a}^{\hat{i}}$} (M =) To sub-oxidation with Sn _{0.95} M _{0.05} O _{0.05<td>ј ЕТ<u>О</u>91</td><td>1 0.784314 rgB</td>}	ј ЕТ <u>О</u> 91	1 0.784314 rgB
362	PE/PEO blends compatibilized by PE brush immobilized on MWNTs: improved interfacial and structural properties. RSC Advances, 2014, 4, 16250-16259.	1.7	19
363	The key role of polymer grafted nanoparticles in the phase miscibility of an LCST mixture. Physical Chemistry Chemical Physics, 2015, 17, 868-877.	1.3	19
364	Cooperative effect between BaTiO3 and CaFe2O4 in a cocatalyst-free heterojunction composite for improved photochemical H2 generation. International Journal of Hydrogen Energy, 2018, 43, 22929-22941.	3.8	19
365	Continuous distribution kinetics for oxidative degradation of PMMA in solution. Polymer Degradation and Stability, 2001, 72, 537-541.	2.7	18
366	Kinetics of Catalytic Degradation of Polycarbonate in Benzene. Industrial & Engineering Chemistry Research, 2003, 42, 687-691.	1.8	18
367	Thermal degradation kinetics of vinyl polyperoxide copolymers. Polymer Degradation and Stability, 2004, 84, 173-179.	2.7	18
368	Kinetics of Photocatalytic Reduction of NO by CO with Pd ²⁺ -lon-Substituted Nano-TiO ₂ . Industrial & Engineering Chemistry Research, 2007, 46, 5798-5802.	1.8	18
369	NO reduction by H2 over nano-Ce0.98Pd0.02O2â^'. Catalysis Communications, 2008, 9, 101-105.	1.6	18
370	Synthesis, characterization and photocatalytic activity of MxCe1â^'xVO4 (M=Li, Ca and Fe). Applied Catalysis A: General, 2009, 361, 32-41.	2,2	18
371	Kinetics of adsorption of methylene blue and rhodamine 6G on acrylic acidâ€based superabsorbents. Journal of Applied Polymer Science, 2012, 126, 463-472.	1.3	18
372	Anomalous structural relaxations in PVDF rich blends with PMMA in the presence of surface functionalized CNTs. Physical Chemistry Chemical Physics, 2014, 16, 23421-23430.	1.3	18
373	Size dependent structural relaxations and dielectric properties induced by surface functionalized MWNTs in poly(vinylidene fluoride)/poly(methyl methacrylate) blends. Physical Chemistry Chemical Physics, 2014, 16, 2693.	1.3	18
374	Room Temperature Growth of Ultrathin Au Nanowires with High Areal Density over Large Areas by <i>in Situ</i> Functionalization of Substrate. Langmuir, 2014, 30, 12690-12695.	1.6	18
375	Enzymatic degradation of polycaprolactone–gelatin blend. Materials Research Express, 2015, 2, 045303.	0.8	18
376	In-situ synthesized poly(vinyl butyral)/MMT-clay nanocomposites: The role of degree of acetalization and clay content on thermal, mechanical and permeability properties of PVB matrix. Composites Science and Technology, 2015, 117, 417-427.	3.8	18
377	Enhanced preferential CO oxidation on Zn ₂ SnO ₄ supported Au nanoparticles: support and H ₂ effects. Journal of Materials Chemistry A, 2016, 4, 14430-14436.	5.2	18
378	Nanodelivery in Scrolls-Based Nanocarriers: Efficient Constructs for Sustainable Scavenging of Heavy Metal Ions and Inactivate Bacteria. ACS Sustainable Chemistry and Engineering, 2019, 7, 18775-18784.	3.2	18

#	Article	IF	CITATIONS
379	Solubilities of dialkylhydrogen phosphonates in supercritical carbon dioxide and their correlation using semi-empirical equations. Separation Science and Technology, 2019, 54, 1650-1660.	1.3	18
380	Non-catalytic transesterification of dry microalgae to fatty acid ethyl esters using supercritical ethanol and ethyl acetate. Fuel, 2020, 275, 117998.	3.4	18
381	Thermal degradation of ternary blends of poly(?-caprolactone)/poly(vinyl acetate)/poly(vinyl) Tj ETQq1 1 0.78431	4 rgBT /Ov	verlock 10 <mark>Tf</mark>
382	Pulsed laser degradation of polyethylene oxide and polyacrylamide in aqueous solution. Polymer Degradation and Stability, 2005, 87, 521-526.	2.7	17
383	Oxidative and photooxidative degradation of poly(acrylic acid). Polymer Degradation and Stability, 2009, 94, 1238-1244.	2.7	17
384	An association and Wilson activity coefficient model for solubilities of aromatic solid pollutants in supercritical carbon dioxide. Thermochimica Acta, 2012, 541, 49-56.	1.2	17
385	Graphene-oxide-supported ultrathin Au nanowires: efficient electrocatalysts for borohydride oxidation. Chemical Communications, 2015, 51, 16856-16859.	2.2	17
386	Influence of MnO2decorated Fe nano cauliflowers on microwave absorption and impedance matching of polyvinylbutyral (PVB) matrix. Materials Research Express, 2016, 3, 095003.	0.8	17
387	Catalytic behaviour of Mn2.94M0.06O4-δ (M=Pt, Ru and Pd) catalysts for low temperature water gas shift (WGS) and CO oxidation. International Journal of Hydrogen Energy, 2020, 45, 10461-10474.	3.8	17
388	Denucleation rates during Ostwald ripening: Distribution kinetics of unstable clusters. Journal of Chemical Physics, 2002, 117, 6607-6613.	1.2	16
389	Synthesis, structure and photocatalytic properties of \hat{I}^2 -ZrMo2O8. Bulletin of Materials Science, 2009, 32, 337-342.	0.8	16
390	Solubilities of resorcinol and pyrocatechol and their mixture in supercritical carbon dioxide. Thermochimica Acta, 2011, 521, 41-48.	1.2	16
391	Tailoring the degradation rate and release kinetics from poly(galactitol sebacate) by blending with chitosan, alginate or ethyl cellulose. International Journal of Biological Macromolecules, 2016, 93, 1591-1602.	3.6	16
392	Trapping a Metastable Ferroelectric Phase by Size Reduction in Semiconducting Ferroelectric <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><</mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:math>	nml:mn>3	<
393	Behavioral analysis of simultaneous photo-electro-catalytic degradation of antibiotic resistant <i>E. coli</i> and antibiotic <i>via</i> ZnO/Cul: a kinetic and mechanistic study. Nanoscale Advances, 2019, 1, 3992-4008.	2.2	16
394	Enzymatic degradation of poly(D,L-lactide) and its blends with poly(vinyl acetate). Journal of Applied Polymer Science, 2006, 101, 675-680.	1.3	15
395	Continuous distribution kinetics for microwaveâ€assisted oxidative degradation of poly(alkyl) Tj ETQq1 1 0.7843	14 rgBT /C 1.8	Verlock 107
396	Synthesis and photocatalytic properties of Ag[Li1/3Ru2/3]O2: A new delafossite oxide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 141-146.	1.7	15

#	Article	lF	Citations
397	Kinetics of sono-photooxidative degradation of poly(alkyl methacrylate)s. Ultrasonics Sonochemistry, 2011, 18, 608-616.	3.8	15
398	Solubility of tri- <i>iso</i> -amyl phosphate in supercritical carbon dioxide and its application to selective extraction of uranium. Separation Science and Technology, 2017, 52, 2224-2237.	1.3	15
399	Continuous distribution kinetics for the thermal degradation of LDPE in solution. Journal of Applied Polymer Science, 2002, 84, 681-690.	1.3	14
400	Thermal Degradation of Poly(vinyl acetate) and Poly($\hat{l}\mu$ -caprolactone) and Their Mixtures in Solution. Industrial & Engineering Chemistry Research, 2004, 43, 1561-1567.	1.8	14
401	Neural Network Modeling of Adsorption Equilibria of Mixtures in Supercritical Fluids. Industrial & Samp; Engineering Chemistry Research, 2005, 44, 7038-7041.	1.8	14
402	Synthesis, characterization, and degradation of biodegradable poly(mannitol citric dicarboxylate) copolyesters. Polymer Engineering and Science, 2011, 51, 2035-2043.	1.5	14
403	Synthesis and structure of Bi2Ce2O7: a new compound exhibiting high solar photocatalytic activity. Dalton Transactions, 2012, 41, 9598.	1.6	14
404	Effect of silane functionalized alumina on poly(vinyl butyral) nanocomposite films: Thermal, mechanical, and moisture barrier studies. Polymer Composites, 2014, 35, 1426-1435.	2.3	14
405	Cyclic reaction network modeling for the kinetics of photoelectrocatalytic degradation. Journal of Environmental Chemical Engineering, 2014, 2, 780-787.	3.3	14
406	A Surlyn/magnesium oxide nanocomposite as an effective water vapor barrier for organic device encapsulation. RSC Advances, 2015, 5, 32580-32587.	1.7	14
407	Process mediated polymorphism, crystallographic texture and structure-property correlation in crystalline/amorphous blends. Polymer, 2018, 138, 307-319.	1.8	14
408	Influence of copper oxide grown on various conducting substrates towards improved performance for photoelectrocatalytic bacterial inactivation. Molecular Catalysis, 2018, 451, 161-169.	1.0	14
409	The journey of polycarbonate-based composites towards suppressing electromagnetic radiation. Functional Composite Materials, 2021, 2, .	0.9	14
410	Thermal degradation kinetics of poly(vinyl chloride-co-vinyl acetate). Polymer Degradation and Stability, 2002, 78, 519-524.	2.7	13
411	Thermal degradation kinetics of isotactic and atactic polypropylene. Journal of Applied Polymer Science, 2003, 90, 2206-2213.	1.3	13
412	Modeling of adsorption equilibria in supercritical fluids. Journal of Supercritical Fluids, 2004, 32, 161-166.	1.6	13
413	Temperature effects for isothermal polymer crystallization kinetics. Journal of Chemical Physics, 2005, 122, 244905.	1.2	13

Substitution Effect on the Photocatalytic Degradation by the Series AxBi26-xMo10O68+0.5y(A = Ba,y= 0;) Tj ETQq $\stackrel{\circ}{1.2}$ O rgBT $\stackrel{\circ}{1.3}$ Overlock

414

#	Article	IF	Citations
415	Ultrasonic degradation of poly(acrylic acid). Journal of Applied Polymer Science, 2009, 112, 991-997.	1.3	13
416	Manipulation of the Hydration Levels in Minerals of Sodium Cadmium Bisulfate toward the Design of Functional Materials. Crystal Growth and Design, 2011, 11, 3213-3221.	1.4	13
417	Photocatalytic Degradation of Water Pollutants Using Nano-TiO2. Green Energy and Technology, 2011, , 625-677.	0.4	13
418	Synthesis and characterization of silicone polymer/functionalized mesostructured silica composites. Polymer Chemistry, 2011, 2, 2643.	1.9	13
419	Photocatalytic Activity of Combustion Synthesized Nanocrystalline CeAlO ₃ . Clean - Soil, Air, Water, 2011, 39, 259-264.	0.7	13
420	Production of syngas from steam reforming and COÂremoval with water gas shift reaction over nanosized Zr0.95Ru0.05O2â^î^solid solution. International Journal of Hydrogen Energy, 2013, 38, 13961-13973.	3.8	13
421	Layer-by-Layer Assembly of Nafion on Surlyn with Ultrahigh Water Vapor Barrier. Langmuir, 2014, 30, 14606-14611.	1.6	13
422	An unusual demixing behavior in PS–PVME blends in the presence of nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 21300-21309.	1.3	13
423	Facile synthesis of aluminium cobalt oxide for dye adsorption. Journal of Environmental Chemical Engineering, 2014, 2, 2259-2268.	3.3	13
424	Shear induced crystallization in different polymorphic forms of PVDF induced by surface functionalized MWNTs in PVDF/PMMA blends. Physical Chemistry Chemical Physics, 2014, 16, 16492.	1.3	13
425	Effect of crosslinker on the swelling and adsorption properties of cationic superabsorbent. Bulletin of Materials Science, 2016, 39, 613-626.	0.8	13
426	Controlled release kinetics of p-aminosalicylic acid from biodegradable crosslinked polyesters for enhanced anti-mycobacterial activity. Acta Biomaterialia, 2016, 30, 168-176.	4.1	13
427	Critical Insights into the Effect of Shear, Shear History, and the Concentration of a Diluent on the Polymorphism in Poly(vinylidene fluoride). Crystal Growth and Design, 2017, 17, 1957-1965.	1.4	13
428	Spectroscopic and kinetic insights of Pt-dispersion over microwave-synthesized GO-supported Pt-TiO 2 for CO oxidation. Molecular Catalysis, 2017, 432, 88-98.	1.0	13
429	Fabrication of Poly(Vinylidene Chloride-Co-Vinyl Chloride)/TiO ₂ Nanocomposite Films and Their Dielectric Properties. Science of Advanced Materials, 2014, 6, 946-953.	0.1	13
430	Renewable Energy via Photocatalysis. Current Organic Chemistry, 2013, 17, 2538-2558.	0.9	13
431	Optimum temperature for oxidative degradation of poly(vinyl acetate) in solution. Chemical Engineering Science, 2001, 56, 5085-5089.	1.9	12
432	Effect of metal ion doping on the photocatalytic activity of aluminophosphates. Journal of Chemical Sciences, 2010, 122, 771-785.	0.7	12

#	Article	IF	CITATIONS
433	Polyaniline modified electrodes for detection of dyes. Synthetic Metals, 2011, 161, 659-664.	2.1	12
434	Nickel coated flyash (Ni-FAC) cenosphere doped polyaniline composite film for electromagnetic shielding. Materials Research Express, 2015, 2, 036403.	0.8	12
435	Localized delivery and enhanced osteogenic differentiation with biodegradable galactitol polyester elastomers. RSC Advances, 2016, 6, 61492-61504.	1.7	12
436	Maltitol-based biodegradable polyesters with tailored degradation and controlled release for bone regeneration. RSC Advances, 2016, 6, 40539-40551.	1.7	12
437	High-temperature transformation pathways for metastable ferromagnetic binary Heusler (Al–55Âat.%Mn) alloy. Journal of Materials Science, 2017, 52, 4109-4119.	1.7	12
438	Influence of adsorption on the measurement of diffusion coefficients by Taylor dispersion. International Journal of Thermophysics, 1996, 17, 373-389.	1.0	11
439	Dynamics of molecular weight distributions for polymer scission. AICHE Journal, 2001, 47, 2539-2547.	1.8	11
440	Title is missing!. Catalysis Letters, 2003, 88, 73-81.	1.4	11
441	Correlations for binary phase equilibria in high-pressure carbon dioxide. Fluid Phase Equilibria, 2005, 238, 174-179.	1.4	11
442	Thermal degradation of poly(ethylene oxide) and polyacrylamide with ascorbic acid. Journal of Applied Polymer Science, 2006, 101, 3067-3072.	1.3	11
443	Degradation kinetics of poly(HDDAâ€ <i>co</i> â€MMA). Journal of Applied Polymer Science, 2010, 117, 2444-2453.	1.3	11
444	Synthesis, structure and ionic conductivity in scheelite type $\text{LiO}\hat{A}\cdot 5\text{CeO}\hat{A}\cdot 5\hat{a}^{2}$ Ln x MoO4 (x = 0 and $0\hat{A}\cdot 25$, Ln) T	ј ЕТ <u>О</u> 90 0	0 rgBT /Overlc
445	Solubilities of <i>n</i> -Butyl Esters in Supercritical Carbon Dioxide. Journal of Chemical & Samp; Engineering Data, 2014, 59, 3329-3334.	1.0	11
446	A self-assembling polycationic nanocarrier that exhibits exceptional gene transfection efficiency. RSC Advances, 2015, 5, 91619-91632.	1.7	11
447	TiO ₂ /EVOH based reactive interlayer in Surlyn for organic device encapsulation. Materials Research Express, 2016, 3, 025302.	0.8	11
448	Microkinetic Modeling of CO Oxidation on Ionic Palladium-Substituted Ceria. Industrial & Engineering Chemistry Research, 2016, 55, 2309-2318.	1.8	11
449	Aluminium and rhodium co-doped ceria for water gas shift reaction and CO oxidation. Molecular Catalysis, 2018, 451, 4-12.	1.0	11
450	PVDF–MWNT interactions control process induced β-lamellar morphology and orientation in the nanocomposites. Physical Chemistry Chemical Physics, 2018, 20, 24821-24831.	1,3	11

#	Article	IF	CITATIONS
451	Photocatalytic NO _x Abatement: A Short Review. Current Organic Chemistry, 2015, 19, 2122-2131.	0.9	11
452	Effect of hydrogen donor on the thermal degradation of poly(vinyl acetate) in solution. Journal of Applied Polymer Science, 2001, 81, 1996-2000.	1.3	10
453	Modeling the chromatographic response of inverse size-exclusion chromatography. Chemical Engineering Science, 2001, 56, 6511-6524.	1.9	10
454	Catalytic degradation of polybutadiene. Polymer Degradation and Stability, 2004, 86, 529-533.	2.7	10
455	Cluster kinetics and dynamics during spinodal decomposition. Journal of Chemical Physics, 2006, 124, 024713.	1.2	10
456	Mixture solubilities of nitrobenzoic acid isomers in supercritical carbon dioxide. Journal of Supercritical Fluids, 2012, 70, 66-74.	1.6	10
457	Dispersed ZrO ₂ nanoparticles in MCMâ€48 with high adsorption activity. AICHE Journal, 2012, 58, 2987-2996.	1.8	10
458	Albumin-mediated incorporation of water-insoluble therapeutics in layer-by-layer assembled thin films and microcapsules. Journal of Materials Chemistry B, 2013, 1, 4819.	2.9	10
459	Organic passivation layer on flexible Surlyn substrate for encapsulating organic photovoltaics. Applied Physics Letters, 2014, 105, .	1.5	10
460	Thermally flexible epoxy/cellulose blends mediated by an ionic liquid. RSC Advances, 2015, 5, 52832-52836.	1.7	10
461	Alkylation of Fatty Acids in Supercritical Alcohols. Energy & Fuels, 2016, 30, 4104-4111.	2.5	10
462	Crystallization Induced Phase Separation: Unique Tool to Design Microfiltration Membranes with High Flux and Sustainable Antibacterial Surface. Industrial & Engineering Chemistry Research, 2017, 56, 2025-2035.	1.8	10
463	Microbial Biofilm Membranes for Water Remediation and Photobiocatalysis. ACS Symposium Series, 2019, , 321-351.	0.5	10
464	Transition Metal (Ni, Cu and Fe) Substituted Co3O4 – ZrO2 Catalysts for Lean Methane Combustion. Topics in Catalysis, 2021, 64, 243-255.	1.3	10
465	Ultrathin structures derived from interfacially modified polymeric nanocomposites to curb electromagnetic pollution. Nanoscale Advances, 2021, 3, 2632-2648.	2.2	10
466	Thermal degradation kinetics of para-substituted poly (styrene peroxide)s in solution. Journal of Applied Polymer Science, 2002, 86, 957-961.	1.3	9
467	A Distribution Kinetics Approach for Crystallization of Polymer Blends. Journal of Physical Chemistry B, 2006, 110, 15198-15204.	1.2	9
468	Analysis of oxide and vanadate supports for catalytic hydrogen combustion: Kinetic and mechanistic investigations. AICHE Journal, 2012, 58, 932-945.	1.8	9

#	Article	IF	CITATIONS
469	Metal–metal charge transfer and interfacial charge transfer mechanism for the visible light photocatalytic activity of cerium and nitrogen co-doped TiO2. Journal of Sol-Gel Science and Technology, 2014, 71, 193-203.	1.1	9
470	Improving antifouling ability by site-specific silver decoration on polyethylene ionomer membranes for water remediation: assessed using 3D micro computed tomography, water flux and antibacterial studies. RSC Advances, 2016, 6, 88057-88065.	1.7	9
471	Experimental solubilities of two lipid derivatives in supercritical carbon dioxide and new correlations based on activity coefficient models. RSC Advances, 2016, 6, 17772-17781.	1.7	9
472	Evaluation of new density based model to correlate the solubilities of ricinoleic acid, methyl ricinoleate and methyl 10-undecenoate in supercritical carbon dioxide. Journal of Supercritical Fluids, 2017, 130, 357-363.	1.6	9
473	Kinetics of non-catalytic synthesis of bis(2-ethylhexyl)sebacate at high pressures. Reaction Chemistry and Engineering, 2017, 2, 27-35.	1.9	9
474	Catalytic synthesis of fatty acid methyl esters from Madhuca indica oil in supercritical methanol. Energy Conversion and Management, 2018, 173, 412-425.	4.4	9
475	Studies to improve the actuation capability of low-frequency IPMC actuators for underwater robotic applications. ISSS Journal of Micro and Smart Systems, 2019, 8, 41-47.	1.0	9
476	Hydrolysis ofp-nitrophenyl laurate in supercritical carbon dioxide: comparison of two different enzymes. Journal of Chemical Technology and Biotechnology, 2001, 76, 890-892.	1.6	8
477	Oxidative degradation of poly (vinyl acetate) and poly (Îμ-caprolactone) and their mixtures in solution. Chemical Engineering Science, 2004, 59, 1577-1587.	1.9	8
478	Cluster kinetics of density relaxation in granular materials. Physical Review E, 2004, 70, 051311.	0.8	8
479	Cluster kinetics of granular mixing. AICHE Journal, 2005, 51, 406-414.	1.8	8
480	A Singleâ€Stage Water–Gas Shift Reaction over Highly Active and Stable Si―and Alâ€Substituted Pt/CeO ₂ Catalysts. ChemCatChem, 2012, 4, 1968-1978.	1.8	8
481	Experimental determination and activity coefficient based models for mixture solubilities of nitrophenol isomers in supercritical carbon dioxide. Journal of Supercritical Fluids, 2013, 79, 2-10.	1.6	8
482	Encapsulation for Improving the Efficiencies of Solar Cells. Nanostructure Science and Technology, 2014, , 23-40.	0.1	8
483	Aminosilane Functionalized Cenosphere in Poly(vinyl butyral) Composite Films: Moisture Resistant Encapsulated Schottky Devices. Polymer-Plastics Technology and Engineering, 2014, 53, 684-692.	1.9	8
484	Predicting Pathways for Synthesis of Ferromagnetic Ï,, Phase in Binary Heusler Alloy Al-55 pct Mn Through Understanding of the Kinetics of ε–Ï,, Transformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 6555-6568.	1,1	8
485	Esterification of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical and Supercritical Methanol. Industrial & Description of Sebacic Acid in Near-Critical Acid in Near-Criti	1.8	8
486	Superior adsorption capacity of strontium titanate and titania composites for anionic dyes removal. Journal of Environmental Chemical Engineering, 2017, 5, 4663-4675.	3.3	8

#	Article	IF	CITATIONS
487	Degradable poly(ester amide)s from olive oil for biomedical applications. Emergent Materials, 2019, 2, 153-168.	3.2	8
488	Effect of temperature on the ultrasonic degradation of polyacrylamide and poly(ethylene oxide). , 2004, 84, 341-341.		8
489	Thermal degradation studies of para-substituted poly(styrene peroxide)s. Polymer Degradation and Stability, 2002, 76, 511-514.	2.7	7
490	Continuous Distribution Kinetics for Photopolymerization of Alkyl Methacrylates. Macromolecular Reaction Engineering, 2009, 3, 556-567.	0.9	7
491	Synthesis of new (Bi, La)3MSb2O11 phases (M = Cr, Mn, Fe) with KSbO3-type structure and their magnetic and photocatalytic properties. Bulletin of Materials Science, 2011, 34, 271-277.	0.8	7
492	Kinetics and mechanism for dye degradation with ionic Pd-substituted ceria. Applied Catalysis A: General, 2011, 395, 39-48.	2.2	7
493	Polymer microfabrication by scanning based microstereolithography: Optical design and material functionality. Review of Scientific Instruments, 2012, 83, 095003.	0.6	7
494	Thermomechanical and fractographic behavior of poly (HDDA oâ€MMA): a study for its application in microcantilever sensors. Polymers for Advanced Technologies, 2012, 23, 1604-1611.	1.6	7
495	Photo, thermal, and ultrasonic degradation of EGDMAâ€crosslinked poly(acrylic acidâ€ <i>co</i> â€sodium) Tj E	「Qql _{1.3} 1 0.7	'84314 rgBT
496	Measurement and correlation of quaternary solubilities of dihydroxybenzene isomers in supercritical carbon dioxide. Journal of Supercritical Fluids, 2013, 73, 63-69.	1.6	7
497	Zirconia doped barium titanate induced electroactive $\langle i \rangle \hat{l}^2 \langle i \rangle$ polymorph in PVDF-HFP: high energy density and dielectric properties. Materials Research Express, 2014, 1, 045301.	0.8	7
498	Antibacterial Membranes for Water Remediation with Controlled Leaching of Biocidal Silver Aided by Prior Grafting of Poly(ethylene imine) on to Ozoneâ€Treated Polyethylene. ChemistrySelect, 2017, 2, 624-631.	0.7	7
499	Controlled release from aspirin based linear biodegradable poly(anhydride esters) for anti-inflammatory activity. International Journal of Pharmaceutics, 2017, 528, 732-740.	2.6	7
500	Controlled Release of Usnic Acid from Biodegradable Polyesters to Inhibit Biofilm Formation. ACS Biomaterials Science and Engineering, 2017, 3, 291-303.	2.6	7
501	Tailored Degradation and Dye Release from Poly(ester amides). Polymer-Plastics Technology and Engineering, 2017, 56, 635-646.	1.9	7
502	Blends of poly($\hat{l}\mu$ -caprolactone) and poly(vinyl acetate): mechanical properties and thermal degradation. , 2004, 84, 345-345.		7
503	Degradation Kinetics for Polymer Mixtures in Solution. Industrial & Engineering Chemistry Research, 2001, 40, 1306-1311.	1.8	6
504	Degradation kinetics of poly(vinyl acetate) in the presence of aluminum chloride. Polymer Degradation and Stability, 2001, 73, 83-86.	2.7	6

#	Article	IF	CITATIONS
505	Tracer mixing dynamics during aggregation and fragmentation. AICHE Journal, 2002, 48, 2167-2178.	1.8	6
506	Kinetics and reactive mixing: Fragmentation and coalescence in turbulent fluids. AICHE Journal, 2004, 50, 835-847.	1.8	6
507	A mechanistic model for the waterâ€gas shift reaction over noble metal substituted ceria. AICHE Journal, 2010, 56, 1315-1324.	1.8	6
508	Photocatalytic Activity of Microwave Plasma-Synthesized TiO2 Nanopowder. Plasma Chemistry and Plasma Processing, 2010, 30, 461-470.	1.1	6
509	Photo and Thermal Degradation of a Cationic Superabsorbent Polymer. Polymer-Plastics Technology and Engineering, 2013, 52, 58-65.	1.9	6
510	Kinetics of CO oxidation on palladium using microkinetics coupled with reaction route analysis. Chemical Engineering Science, 2015, 131, 271-281.	1.9	6
511	Influence of Mesoporous Silica and Butyral Content on the Mechanical, Water Absorption, and Permeability Properties of in situ Synthesized Silica/PVB Nanocomposite Films. Polymer-Plastics Technology and Engineering, 2016, 55, 1220-1230.	1.9	6
512	Microkinetic Modeling of CO Oxidation over FePt-Decorated Graphene Oxide. Industrial & Engineering Chemistry Research, 2017, 56, 8465-8473.	1.8	6
513	Kinetics of esterification of 10-undecenoic and ricinoleic acids with near-critical and supercritical methanol. Sustainable Energy and Fuels, 2017, 1, 1425-1436.	2.5	6
514	Analysis on enhancing the sensing behavior of ionic polymer metal composite based sensors. Journal of Intelligent Material Systems and Structures, 2021, 32, 420-429.	1.4	6
515	Kinetics of the enzymatic degradation of poly(vinyl acetate) in solution. Journal of Applied Polymer Science, 2003, 89, 2579-2582.	1.3	5
516	Nucleation, growth, and coarsening for two- and three-dimensional phase transitions. Journal of Crystal Growth, 2005, 279, 466-476.	0.7	5
517	Mixing Effects on Particle Precipitation. Industrial & Engineering Chemistry Research, 2005, 44, 5267-5274.	1.8	5
518	Effect of Chain Length on Enzymatic Hydrolysis of p-Nitrophenyl Esters in Supercritical Carbon Dioxide. Applied Biochemistry and Biotechnology, 2008, 144, 213-223.	1.4	5
519	Mechanistic overview of the curing behavior of hydride terminated polydimethylsiloxane with allyl functionalized alumina by calorimetry and rheometry. Thermochimica Acta, 2011, 524, 74-79.	1.2	5
520	Combustion synthesized vanadia rods for environmental applications. AICHE Journal, 2011, 57, 2215-2228.	1.8	5
521	Water Vapor Barrier Material by Covalent Self-Assembly for Organic Device Encapsulation. Industrial & Lamp; Engineering Chemistry Research, 2014, 53, 17894-17900.	1.8	5
522	The influence of mesoporous silica in low Tg cyclic olefin copolymer nanocomposite films: Mechanical and moisture barrier studies. Composites Science and Technology, 2014, 96, 80-87.	3.8	5

#	Article	IF	CITATIONS
523	Photochemical detoxification of Cr(<scp>vi</scp>) using iron and saccharic acid: insights from cytotoxic and genotoxic assays. Environmental Science: Water Research and Technology, 2018, 4, 1152-1162.	1.2	5
524	Gradient platform for combinatorial screening of thermoset polymers for biomedical applications. Materials Science and Engineering C, 2019, 94, 766-777.	3.8	5
525	Exploring the pathways for enhancing the hard magnetic properties of binary Al-55at.%Mn Heusler alloy through mechanical alloying. Journal of Magnetism and Magnetic Materials, 2017, 439, 181-187.	1.0	5
526	Kinetics for thermal degradation of polystyrene in presence of p-toluene sulfonic acid. Journal of Environmental Management, 2002, 7, 117-121.	1.7	4
527	Influence of HZSM-5 catalyst on the thermal degradation of poly(vinyl chloride) in solution. Journal of Applied Polymer Science, 2002, 84, 791-796.	1.3	4
528	Determination of viscosities for alumina–polyethylene blends. Journal of Materials Science, 2002, 37, 1333-1336.	1.7	4
529	Population Balance Modeling of Turbulent Mixing for Miscible Fluids. Journal of Fluids Engineering, Transactions of the ASME, 2005, 127, 564-571.	0.8	4
530	A distribution kinetics model of self-assembly: Effects of coalescence and solvent evaporation. Journal of Crystal Growth, 2006, 286, 131-136.	0.7	4
531	Effect of Oxidizers on Microwave-Assisted Oxidative Degradation of Poly(alkyl acrylates). Industrial & Lamp; Engineering Chemistry Research, 2008, 47, 7538-7544.	1.8	4
532	Effect of bismuth substitution on crystal chemistry, photocatalysis and conductivity in Sr3V2O8: a new structural type in palmierite class. RSC Advances, 2012, 2, 10505.	1.7	4
533	Study of Thermal Relaxation of Poly (HDDA-co-MMA) by Temperature Modulated DSC and Dielectric Spectroscopy. Polymer-Plastics Technology and Engineering, 2013, 52, 485-494.	1.9	4
534	Water vapor permeabilities through polymers: diffusivities from experiments and simulations. Materials Research Express, 2014, 1, 035301.	0.8	4
535	Simple three parameter equations for correlating liquid phase compositions in subcritical and supercritical systems. Journal of Supercritical Fluids, 2014, 95, 100-105.	1.6	4
536	Reactive interlayer based ultra-low moisture permeable membranes for organic photovoltaic encapsulation. Physical Chemistry Chemical Physics, 2015, 17, 23165-23172.	1.3	4
537	Nanomaterial-based ionic polymer metal composite insect scale flapping wing actuators. Mechanics of Advanced Materials and Structures, 2016, 23, 1300-1311.	1.5	4
538	Physical insights into salicylic acid release from poly(anhydrides). Physical Chemistry Chemical Physics, 2016, 18, 2112-2119.	1.3	4
539	Potentiation of hydrogen peroxide mediated water decontamination using thioglycolic acid. Journal of Environmental Chemical Engineering, 2018, 6, 2200-2205.	3.3	4
540	Kinetics of thermal degradation of vinyl polyperoxides in solution. Polymer Degradation and Stability, 2002, 76, 161-170.	2.7	3

#	Article	IF	CITATIONS
541	Enzymatic degradation of polymers. , 2005, , 411-440.		3
542	Cluster kinetics model of particle separation in vibrated granular media. Physical Review E, 2006, 73, 011301.	0.8	3
543	A fragmentation model for crystal attrition. Journal of Crystal Growth, 2007, 305, 211-217.	0.7	3
544	Distribution Kinetic Approach for Separation of Polymorphs. Chemical Engineering Research and Design, 2007, 85, 1355-1361.	2.7	3
545	Thermal and sonochemical degradation kinetics of poly(<i>n</i> à€butyl methacrylateâ€ <i>co</i> â€alkyl) Tj ETQq. Engineering and Science, 2013, 53, 1542-1553.	1 1 0.7843 1.5	314 rgBT /C 3
546	Effect of solvents on the enzyme mediated degradation of copolymers. Materials Research Express, 2015, 2, 095301.	0.8	3
547	Microkinetic model for WGS over ionic platinum substituted ceria under r-WGS conditions. International Journal of Hydrogen Energy, 2017, 42, 23891-23898.	3.8	3
548	Effect of aluminum chloride and Pt/ TiO2 on the thermal degradation of poly(vinyl chloride) in solution. Journal of Applied Polymer Science, 2003, 90, 3532-3535.	1.3	2
549	Kinetics and dynamics of gelation reactions. Chemical Engineering Science, 2007, 62, 5257-5263.	1.9	2
550	CLUSTER KINETICS OF PHASE TRANSITIONS: APPLICATIONS TO INNOVATIVE TECHNOLOGIES. Chemical Engineering Communications, 2008, 196, 204-233.	1.5	2
551	CLUSTER KINETICS AND DYNAMICS OF OSCILLATOR SYNCHRONIZATION. International Journal of Modern Physics B, 2008, 22, 889-900.	1.0	2
552	Enzymatic Degradation of Poly(soybean oil-g-methyl methacrylate). Journal of Polymer Engineering, 2010, 30, .	0.6	2
553	Effect of Zr4+-ion substitution in CeO2 on H2O2-assisted degradation of orange G. Catalysis Communications, 2011, 12, 940-945.	1.6	2
554	Poly-HDDA microstructure fabrication using microstereolithography for microcantilever-based sensor technology. , 2011, , .		2
555	Semi empirical models for selectivity of supercritical carbon dioxide for solid mixtures. Separation and Purification Technology, 2012, 89, 181-188.	3.9	2
556	Lipase mediated enzymatic degradation of polydioxanone in solution. Polymer Degradation and Stability, 2014, 110, 284-289.	2.7	2
557	Novel poly (vinyl butyral) (PVB)/polyaniline-cenosphere composite film for EMI shielding. AIP Conference Proceedings, 2016, , .	0.3	2
558	Critical insights into the effect of shear onin situreduction of graphene oxide in PVDF: assessing by rheo-dielectric measurements. Materials Research Express, 2016, 3, 065301.	0.8	2

#	Article	IF	CITATIONS
559	Microwave absorption property of PVB-polyaniline nanocomposite., 2017,,.		2
560	Catalytic Synthesis of CO Free Hydrogen. , 2013, , 223-252.		1
561	PVDF membranes containing hybrid nanoparticles for adsorbing cationic dyes: physical insights and mechanism. Materials Research Express, 2016, 3, 075303.	0.8	1
562	Experimental determination and development of solution theory based model for the mixture solubilities of 10-undecenoic acid with methyl 10-undecenoate and methyl ricinoleate in supercritical carbon dioxide. Journal of Supercritical Fluids, 2018, 137, 74-80.	1.6	1
563	Experimental determination and association model for the solubilities of methyl 10-undecenoate with methyl ricinoleate in supercritical carbon dioxide. Journal of Supercritical Fluids, 2018, 139, 80-87.	1.6	1
564	Continuous distribution kinetics for the thermal degradation of LDPE in solution. Journal of Applied Polymer Science, 2002, 84, 681.	1.3	1
565	Supercritical fluid extraction of organic pollutants from soil combined with adsorption onto activated carbon. Waste Management, 1993, 13, 514.	3.7	O
566	Chemical Kinetics in Dispersed-Phase Reactors. International Journal of Chemical Reactor Engineering, 2003, $1,\ldots$	0.6	O
567	Thermodynamic modeling of the solubilities of fatty acids in supercritical fluids. Fluid Phase Equilibria, 2004, 220, 167-167.	1.4	O
568	Synthesis, Structure, and Photocatalysis in a New Structural Variant of the Aurivillius Phase: LiBi4M3O14 (M: Nb, Ta) ChemInform, 2005, 36, no.	0.1	O
569	Chapter 23 Crystal Growth and Dissolution with Breakage: Distribution Kinetics Modelling. Handbook of Powder Technology, 2007, , 971-988.	0.1	O
570	Photocatalytic Inactivation of Escherichia coli with LbL Fabricated Immobilized TiO2 Thin Films. Journal of Advanced Oxidation Technologies, 2011, 14, .	0.5	0